

OFFICE OF CONSERVATION  
STATE OF LOUISIANA

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IN RE: GROUND WATER  
RESOURCES COMMISSION MEETING

REPORT OF MEETING  
HELD AT  
BATON ROUGE, LOUISIANA  
JULY 31, 2006

1 OFFICE OF CONSERVATION

2 STATE OF LOUISIANA

3 -----

4 IN RE: GROUND WATER

5 RESOURCES COMMISSION MEETING

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7  
8 Report of the public hearing held by the Ground  
9 Water Resources Commission, State of Louisiana, on July  
10 31, 2006, in Baton Rouge, Louisiana.

11  
12 IN ATTENDANCE:

13 REPRESENTING THE OFFICE OF CONSERVATION:

14 Scott Kirkpatrick, Chairman

15 James H. Welsh, Commissioner of Conservation

16 Karen Gautreaux, Department of Environmental Quality

17 Zahir "Bo" Bolourchi, DOTD - Water Resources

18 John Roussel, Capital Area Groundwater Commission

19 Linda Walker, League of Women Voters

20 Karen Irion, Department of Health and Hospitals

21 Gene Coleman, Sparta Groundwater Conservation District

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30  
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1 AGENDA

2

3 I. Call to Order -- Governor's Office

4 II. Ground Water Resources Division Activities

5 III. Old Business

6 A. Update on Sparta "Areas of  
7 Groundwater Concern"

8 1. Order AGC-1-05 - Anthony L. Duplechin, Jr.  
9 (a.) Reporting Requirements - Timothy  
10 Seiler, Jr.

11 2. Educational Incentives - Rep. Hollis Downs

12 3. West Monroe Waste Water Reuse Project  
13 Terry Emory and John Stamberg

14 B. Update on proposed language for Regional  
15 Water Advisory Groups

16 IV. New Business

17 A. Legislative Update

18 1. Act 29

19 2. Act 30

20 B. Panel Discussion:

21 Representatives of the following State and  
22 Federal agencies have been invited to speak  
23 about the effect of Hurricanes Katrina and  
24 Rita on Louisiana ground water resources:  
25 DOTD, DEQ, and USGS

26 V. Commission Comments

27 VI. Task Force Comments

28 VII. Public Comments

29 VIII. Schedule for Next Meeting

30 IX. Adjourn

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1 LOUISIANA GROUND WATER RESOURCES

2 COMMISSION MEETING

3 JULY 31, 2006

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5 MR. KIRKPATRICK:

6 We're going to go ahead and call this meeting of  
7 the Ground Water Resources Commission together.

8 Mr. Duplechin, would you call the roll?

9 MR. DUPLACHIN:

10 Okay. I'm going to call out the entity that is  
11 represented on the Commission. If you would state your  
12 name for the record when I do that.

13 Governor's Office?

14 MR. KIRKPATRICK:

15 Here, Scott Kirkpatrick.

16 MR. DUPLACHIN:

17 Commissioner of Conservation?

18 MR. WELSH:

19 I'm here, Jim Welsh.

20 MR. DUPLACHIN:

21 Department of Agriculture and Forestry?

22 (No response.)

23 Department of Economic Development?

24 (No response.)

25 Department of Environmental Quality?

26 (No response.)

27 Department of Health and Hospitals?

28 MS. IRION:

29 Karen Irion, here.

30 MR. DUPLACHIN:

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1 Department of Wildlife and Fisheries?

2 MR. ROUSSEL:

3 John Roussel, here.

4 MR. DUPLÉCHIN:

5 Department of Transportation and Development?

6 MR. BOLOURCHI:

7 Bo Bolourchi, I'm here.

8 MR. DUPLÉCHIN:

9 Governor's Office of Coastal Activities?

10 (No response.)

11 A geologist or engineer with expertise in ground  
12 water resource management?

13 (No response.)

14 A representative of either Louisiana Chemical  
15 Association, the Louisiana Mid-Continent Oil and Gas  
16 Association, the Louisiana Association of Business and  
17 Industry, or the Louisiana Pulp and Paper Association?

18 (No response.)

19 Louisiana Farm Bureau?

20 (No response.)

21 Police Jury Association of Louisiana?

22 (No response.)

23 Louisiana Municipal Association?

24 (No response.)

25 Sparta Ground Water Conservation District? Gene?

26 MR. COLEMAN:

27 Gene Coleman, as a guest. Richard Durrett is not  
28 available today.

29 MR. DUPLÉCHIN:

30 Capital Area Ground Water Conservation District?

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1 (No response.)

2 Representative of the Chicot Aquifer?

3 (No response.)

4 Louisiana Landowners Association?

5 (No response.)

6 Representative of either the Louisiana Wildlife  
7 Federation, Coalition to Restore Coastal Louisiana, or  
8 the League of Women Voters?

9 MS. WALKER:

10 Linda Walker, here.

11 MR. DUPLÉCHIN:

12 Thank you.

13 MR. KIRKPATRICK:

14 All right. Thank you. And I'll just mention,  
15 from that roll call, we obviously have a number of  
16 vacancies on this Commission. Our office is aware of  
17 that and is working to fill those, so, hopefully, by  
18 the next meeting, we will have a more robust group up  
19 here.

20 So I think we're ready for the Ground Water  
21 Resources Division's Activities.

22 MR. DUPLÉCHIN:

23 Okay. Thank you. Before I give my report, I'd  
24 like to ask the Commission and all present to observe a  
25 moment in silence in observance in memory of Mike  
26 Bourgeois who passed away on February 1st of this year.  
27 Mike was Executive Director of Louisiana Landowners  
28 Association and represented that organization on the  
29 Commission, and Mike had previously been Deputy  
30 Secretary of DNR during the mid-1980s.

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1 (Moment of silence.)

2 MR. DUPLECHIN:

3 Thank you.

4 As most of you recall, our last meeting was in  
5 June of 2005, and since then, a lot of water has not  
6 only gone under the bridge but, in some cases, over the  
7 bridge. Hurricanes Katrina and Rita have had a  
8 profound effect on all of us, in both our professional  
9 and personal lives.

10 After we met in June last year, the Division  
11 hosted an information booth at the Louisiana Rural  
12 Water Association's annual conference in Alexandria.  
13 Several members of my staff were at that meeting  
14 manning the booth, and I made two presentations at  
15 classroom sessions. Tim Seiler of my staff was  
16 appointed to the Advisory Committee on the Regulation  
17 and Control of Water Well Drillers and has been  
18 attending meetings of that body since.

19 On August 15, 2005, Order AGC-1-05 went into  
20 effect declaring three areas of ground water concern in  
21 north Louisiana. This action will be discussed in more  
22 detail later in this agenda. Later on in the month, I  
23 made a presentation on water rights in Louisiana to a  
24 group in Lafayette and then attended a meeting of the  
25 Toledo Bend Joint Operating Committee at the reservoir  
26 dam site in Texas. This was right at the end of  
27 August, just before Hurricane Katrina hit.

28 Following Hurricane Katrina's arrival in the  
29 state, various DNR personnel were assigned to work with  
30 other State agencies as part of the hurricane relief

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1 efforts. Charlotte Hardison, the Division's  
2 administrative coordinator, worked with the Louisiana  
3 Office of Emergency Preparedness.

4 The Commission was scheduled to meet on December  
5 -- on September 26th last year, but Hurricane Rita took  
6 care of postponing that meeting.

7 Following that, I attended a meeting of the Sabine  
8 River Compact Administration in October. On October  
9 15th, Governor Blanco issued Executive Order  
10 KBB-2005-63, which created the Louisiana Recovery  
11 Authority. Within the many task forces and recovery  
12 teams of LRA was the Water Treatment and Water Supply  
13 Action Team, to which I was assigned and later named  
14 team leader, and I have been working on this and  
15 attending meetings with that body monthly since then.  
16 This team has since been renamed and re-focused to be  
17 the Aquifer Protection Action Team, and we'll talk a  
18 little bit more about some of the work that's been done  
19 with this group later.

20 In November, Louisiana Water Resources town  
21 meeting was held in downtown New Orleans, and several  
22 members of the Commission and Task Force were at  
23 attendance at that meeting.

24 In May, the Office of Conservation presented a  
25 certificate of commendation to former Commissioner  
26 Richard Durrett on the occasion of his retirement from  
27 Lincoln Parish government, citing his hard work and  
28 dedication to ground water conservation.

29 Just two weeks ago, we hosted another information  
30 booth at the Rural Water Association's annual

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1 conference. During the awards banquet, I accepted an  
2 appreciation award to DNR on behalf of  
3 Secretary Angelle.

4 That's our report.

5 MR. KIRKPATRICK:

6 Are there any questions?

7 (No response.)

8 All right. We can move on to old business, an  
9 update on the Sparta areas of ground water concern.

10 MR. DUPLÉCHIN:

11 Okay. As I stated in my report, we -- before the  
12 last Commission meeting in June of last year, the  
13 Commissioner had issued an order declaring the three  
14 areas of ground water concern, but it did not go into  
15 effect until August 15th. I have included in your  
16 packets, and there are copies available for the rest of  
17 the people here, a copy of the order, including a  
18 memorandum from the Commissioner to interested parties,  
19 and the order, which goes over the requirements of  
20 people who own water wells in the three areas of ground  
21 water concern, as well as maps showing where those  
22 areas are.

23 One of the main requirements of the order is that  
24 owners of each non-domestic well in an area of ground  
25 water concern submit a monthly report within 60 days of  
26 the end of the month to the Commissioner showing the  
27 amount of water pumped on a monthly basis and the  
28 purpose for which it was used, and if the static water  
29 level is available, we would like that information.

30 At this time, I'd like to ask Tim Seiler of our

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1 staff to come up and give a report on the -- what we've  
2 gotten from the reporting requirements so far.

3 MR. SEILER:

4 Thank you. Good afternoon.

5 As Tony has stated, on August 15, 2005, the  
6 Commissioner of Conservation issued Order No. AGC-1-05,  
7 designating several areas of the Sparta aquifer areas  
8 of ground water concern. Pursuant to the order, owners  
9 of non-domestic wells are required to submit monthly  
10 ground water usage reports to the Office of  
11 Conservation stating the DOTD well number, what the  
12 well was used for, the usage, and the static water  
13 level, if available.

14 An extensive research program was performed by the  
15 Ground Water Resources Division to identify the current  
16 ownership of each well identified as being located in  
17 the areas of ground water concern. The research  
18 consisted of the following. First, we researched the  
19 DOTD database for active, non-domestic water wells in  
20 the areas of ground water concern; two, research the  
21 DOTD files for ownership information; three, contacted  
22 the owner obtained from research of DOTD to verify the  
23 current ownership of water wells, or if information  
24 obtained was not correct, locate current owner by  
25 various methods, such as name or reverse address search  
26 on the internet phone book; four, perform title search  
27 at clerk of records in each parish to determine the  
28 current ownership of the land the water well is  
29 located. Because well locations are located to the  
30 nearest second and because the plates located at the

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1 clerk of records do not have longitude and latitude  
2 plotting for grids, the Division was only able to  
3 narrow down the ownership of a few people and not the  
4 exact owner of the well, so we had to do further work,  
5 such as phone calls that were placed to these people in  
6 order to determine ownership. For the wells in which  
7 potential owners could not be contacted, letters were  
8 sent with a map showing the location of the water well  
9 and a request that the owner contact the Division.  
10 Six, letters were also sent out to the known water well  
11 owners instructing them on reporting requirements.

12 The results of that investigation showed that we,  
13 first, were looking for a total of 81 owners. Nine  
14 owners we were unable to contact, they represented 12  
15 water wells that we were unable to determine who the  
16 owner was or whether they were still active. Owners  
17 that have reported to date are 26, representing 67  
18 wells; owners that have not reported are 18,  
19 representing 53 wells; and owners whose wells were  
20 found to be inactive, plugged and abandoned, or  
21 domestic and not required reporting were 31 owners,  
22 representing the number of 40 wells.

23 The information that you have here regarding the  
24 summary has several more tables which pretty much show  
25 in detail who's been contacted in various areas of  
26 ground water concern and who has reported.

27 The last table, Table 9, shows the monthly usage  
28 per each area of ground water concern and gallons per  
29 month for the three areas of ground water concern.

30 It should be noted that the usage reports are due

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1 within 60 days of the reporting month, so not all  
2 reports are in yet for May and June. In addition to  
3 those companies or people who have not reported, they  
4 may begin reporting, be able to submit reports, for  
5 previous months. Therefore, all the information on  
6 Table 9 is subject to change.

7 And that's basically all I have for that.

8 MR. DUPLÉCHIN:

9 Thank you, Tim.

10 MR. KIRKPATRICK:

11 Any questions? I did. Did you mention if -- for  
12 those who have not reported, maybe what the next steps  
13 are to encourage them to report?

14 MR. SEILER:

15 For those who have not reported, you know, they  
16 keep calling them up, and we're trying to get some  
17 information from them. It's just a matter of some  
18 companies are trying to wait until they put meters on  
19 their wells. Other ones are -- we're just having  
20 trouble getting them to respond.

21 MR. KIRKPATRICK:

22 Okay.

23 MR. DUPLÉCHIN:

24 I might point out that some of the people that  
25 haven't replied, they fall under the "haven't replied"  
26 category, but they have replied but the format in which  
27 they have submitted the information doesn't fit the  
28 needs of what was required, so we're trying to get them  
29 to send it in in a format that we can use. But I did  
30 make a trip to north Louisiana in March and visited as

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1 many of the people that had reported as I could,  
2 personally, to tell them how important it was to get  
3 this information in.

4 MR. KIRKPATRICK:

5 What kind of response are you getting, generally,  
6 from them?

7 MR. DUPLICHIN:

8 I got a pretty good. The -- you can look at the  
9 bottom of Page 3 and see where a bulk of the wells are  
10 in the "non-responding" category that I did have  
11 trouble getting in touch with the holding companies  
12 that operate those -- or do the recording for those  
13 wells. People were either out of the office or busy or  
14 something.

15 MR. KIRKPATRICK:

16 Okay. So do we anticipate at the coming months,  
17 we will get --

18 MR. DUPLICHIN:

19 We will continue to try and contact them, even if  
20 it does take going up to their offices again.

21 MR. KIRKPATRICK:

22 All right. Thank you.

23 MR. DUPLICHIN:

24 Our next speaker on the Sparta will be  
25 Representative Downs, and I'd like Commissioner Welsh  
26 to introduce him.

27 MR. WELSH:

28 Thank you, Tony.

29 We do have a special guest this afternoon.

30 Mr. Hollis Downs is a representative of the State of

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1 Louisiana from District 12. He is a Republican. He  
2 covers the parishes of Lincoln and Union Parish. He  
3 was elected to office first in 2003. He makes his  
4 office in the town of Ruston. He's a financial  
5 planner, by occupation. He sounds like a good guy to  
6 know in this day and time. His committee assignments  
7 are agriculture, forestry, aquaculture, and rural  
8 development, education, transportation, highways, and  
9 public works, and he's on the House special committee  
10 on disaster planning for the middle and north Louisiana  
11 subcommittee.

12 Since 2003, Mr. Downs has followed very closely  
13 the Louisiana ground water management programs as a  
14 State representative, being very active with the Sparta  
15 Aquifer, the situation in north Louisiana. There's an  
16 ongoing educational program regarding the Sparta  
17 Aquifer, and Mr. Downs has generously agreed to tell us  
18 all about that this afternoon, as well as any other  
19 matters and concerns that you may have regarding the  
20 ground water usage and management of the Sparta in his  
21 area.

22 So I have the honor to present to you now,  
23 Mr. Hollis Downs. Mr. Downs?

24 REPRESENTATIVE DOWNS:

25 Thank you, Commissioner Welsh.

26 Mr. Chairman, Commissioner, Commission members,  
27 and the audience, I'm delighted to be here. I want to  
28 move as rapidly as I can, but at the same time, since  
29 this is a rare opportunity to try to cover the areas  
30 that we need to cover so that we will unequivocally

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1 guarantee our success in this endeavor, because we're  
2 dealing with something that you can't live without, and  
3 so we need to work on that.

4 First of all, with regards to the report that we  
5 just got -- and Tony and I had this discussion before  
6 we started today, and I've seen all that data and I  
7 appreciate very much the efforts that we're making to  
8 get the monthly reports on the pumpage in the area,  
9 because we all know that, ultimately, the only way we  
10 can be absolutely certain about what we're doing is to  
11 have good data and to track it. And so in this area, I  
12 want to insist that we move rapidly and firmly to make  
13 sure that everybody is reporting that's required to  
14 report, and that it's real information. One of our  
15 next steps will be to make sure that it's real  
16 information and not something they're speculating  
17 about, and that means that they have to be metered,  
18 otherwise, they're guessing. So, you know, I know  
19 we'll want to move in those directions.

20 I mean, ultimately, our goal has to be sooner than  
21 later that every commercial well, every water system,  
22 everything that is commercial, has got to be metered at  
23 the well, and it's got to be metered at the end user.  
24 In the absence of that, we're not ever going to know  
25 for sure what we're producing and how much we're  
26 losing, and I'm willing to help you achieve that.  
27 Hopefully, we can get it done in a simple matter, but  
28 if it requires legislation, I'm prepared to do that.  
29 So I think that's really important.

30 Just briefly, I think most of you all know the

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1 history, but a real quick version, the Sparta is a  
2 viable water source for much of this state,  
3 appropriately a 16-parish area, a split by I-20 in  
4 north Louisiana. And what we've learned about the  
5 Sparta is that it can sustain about 52 million gallons  
6 a day of pumpage and remain in balance. We know that  
7 we are pumping somewhere in the neighborhood of 70  
8 million gallons a day, and -- plus or minus, or that we  
9 were. We would like to think that we may have already  
10 reduced that a tad, but we're -- in that area. So we  
11 know we were over-pumping it 15 to 20 million gallons a  
12 day, and because of that, we were causing problems, and  
13 eventually, we would have run ourself dry. In fact, we  
14 had begun to run ourself dry in a few areas and had  
15 some salt water problems in some other areas. So  
16 that's kind of the magnitude of it. We've got to work  
17 back from there, get it down to 52 million gallons a  
18 day through all means available to us, and then, of  
19 course, look for other sources for the future. So I'm  
20 optimistic about that. I think that frames it pretty  
21 close, doesn't it?

22 We -- you know, it's a passionate issue,  
23 particularly, it's a passionate issue in our area where  
24 it is our source of water along the line, and so it  
25 would be a fair statement to say that not everyone has  
26 agreed with everything that we've done up to this point  
27 along the line. And some would have hoped that it  
28 would have been much stricter. A few probably wish we  
29 would have just left it alone and done nothing, but I  
30 think we're moving forward, that we're doing the right

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1 thing. The mass incumbent is on us to do it because,  
2 as an example -- and Tony and I talked about this --  
3 now, if we don't get on top of it immediately, those  
4 people who are not reporting, then our critics would  
5 say, "Well, that's just about what I expected. You  
6 don't really care about that. They're not doing it,  
7 and you're not going to do a thing about it." So we  
8 don't -- we've got to have facts to do it right, and we  
9 need to win this PR battle, also. So it's imperative  
10 that we immediately move to get everybody reporting and  
11 to guarantee that they're reporting accurately.

12 We're dealing with the Sparta from a four-pronged  
13 approach, and since we just had a meeting a few weeks  
14 ago in Ruston with the LRWA, Louisiana Rural Water  
15 Association, who's one of our partners in solving this  
16 issue, this is normally something that, in speaking in  
17 public, you should never do, but I drafted a letter  
18 that is about to go out, and I'll leave a copy with you  
19 all today. And it's to all 177 water authorities,  
20 rural waters -- commercial ventures in the Sparta area,  
21 as well as the entire legislative delegation throughout  
22 that area, as well as some others, but I think that it  
23 will give the flavor of the situation and touch for you  
24 clearly on there. So if you'll permit me to do that,  
25 and then you can critique me, in public speaking, says  
26 you read something and that violates all the rules, so  
27 I'm relying, but that might move it faster.

28 As I said, going to all the water systems, all the  
29 delegation: As part of our ongoing efforts to address  
30 the issues related to the long-term viability of the

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1 Sparta Aquifer, I recently invited the Louisiana Rural  
2 Water Association to come to Ruston. LRWA gave a  
3 report on the status of the commercial water systems  
4 that existed within the Sparta, their estimates of the  
5 amount of leakage in those systems, and the reasonable  
6 amount of leakage reduction that could take place.  
7 Additionally, the LRWA gave information concerning  
8 water rates within the systems, a report showing the  
9 number of systems that were fully metered, both at the  
10 wells, as well as the customers, the end users.

11 It was an excellent presentation, demonstrated to  
12 me and all present that we have a huge opportunity to  
13 address a major portion of our daily Sparta water  
14 shortages by reducing the amount of leakage that exists  
15 today to a reasonable level. According to LRWA, it is  
16 estimated that of the 177 systems in the Sparta, we are  
17 leaking 24 million gallons per day between the time the  
18 water is pumped out of the ground and the time it gets  
19 to the end users.

20 I think most of you know that it's estimated that  
21 the over-pumpage of the Sparta is approximately 17  
22 million gallons a day. In theory, we could solve  
23 100 percent of that by reducing leakage in the water  
24 systems within the Sparta, but reality is, you can't  
25 have a leak-tight system. They've estimated to us that  
26 it's very reasonable to reduce the amount of leakage  
27 down to about 15 percent of the water that's being  
28 pumped.

29 If we're successful in reducing the leakage down  
30 from a number that they now tell us is greater than 30

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1 percent to a number that's approximately 15 percent, we  
2 can save 12 million gallons of water per day.

3 Louisiana Rural Water Association data indicated that  
4 these systems within the Sparta -- there are systems  
5 that currently leak less than 10 percent a day, and  
6 that there are systems that leak from 60 to 80 percent  
7 per day, and that the average leaking in the Sparta is  
8 greater than 30 percent.

9 Leak reduction of the commercial systems within  
10 the Sparta is one of our four efforts that we're  
11 undertaking to solve the Sparta water shortage and to  
12 guarantee that we have an adequate supply from this  
13 pristine aquifer for future growth. The other efforts  
14 include individually and business conservation of daily  
15 water usage by the implementation of reasonable  
16 water-saving behavior ranging from how we brush our  
17 teeth and shave to toilet leakage, water-saving shower  
18 heads, and other ideas. We just conservatively  
19 estimated that without altering our lifestyles, we can  
20 reduce the daily usage of the Sparta by 5 to 6 million  
21 gallons per day through good, personal stewardship of  
22 our water.

23 LSU Cooperative Extension and the Ag Center have  
24 taken on the responsibility for public education in  
25 this effort which was launched this past spring. If  
26 you've not seen their printed materials and their plans  
27 for addressing this issue, I encourage you to do so. I  
28 am very impressed with what they've done, and I am  
29 pleased to tell you they're working through the schools  
30 and 4-H Clubs with this effort underway and going on

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1 for many years to come.

2 We are addressing the re-treatment of water  
3 through a pilot program now underway in West Monroe  
4 between the City of West Monroe and Graphics Designs.  
5 If and when the pilot program is successful, which  
6 should come within the next six months, we will move  
7 forward with plans to construct such a facility that  
8 Graphics has agreed to use and remove itself from the  
9 Sparta. It is estimated that that will save 10 million  
10 gallons per day. The projected cost of that project is  
11 plus or minus \$18 million.

12 We're exploring alternative water sources and the  
13 final funds have just recently been secured to pay for  
14 the engineering study to pay for a pipeline to -- from  
15 Ruston to Lake D'Arbonne. If those studies indicate  
16 that the project is viable, the estimated cost of that  
17 project today is plus or minus \$75 million to produce  
18 another 10 to 12 million gallons of water per day.

19 If we are responsible stewards and save 5 or 6  
20 million gallons a day through good public education,  
21 that comes at a cost of zero. Actually, it will result  
22 in a savings to the individuals whose water bills will  
23 be lower. If we can reduce the leakage of our systems  
24 to a reasonable number, that can save an additional 12  
25 million per day.

26 I realize that all the leaks in the system can't  
27 be fixed for free, but they can certainly be fixed for  
28 less than 18 million or 75 million. So it's imperative  
29 that we take steps to solve leakage, use personal  
30 water-saving behavior, and enhance our public education

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1 efforts before we go to the Legislature and to the  
2 Congress and ask citizens around the state and the  
3 nation to pay for our solutions.

4 In addition to making our best efforts to reduce  
5 the leakage within our system, it is important that  
6 each of you revisit the water rate structures to make  
7 sure that they provide adequate revenues for you to  
8 build reserves to keep your systems operating  
9 effectively and to make repairs when your systems break  
10 down. In addition to water rates that help you have  
11 the reserves you need, the proper rate structure will  
12 act as a conservation tool, because people will  
13 naturally attempt to reduce their usage in order to  
14 save on their water bills. There is ample evidence to  
15 prove this.

16 It is essential that every commercial well within  
17 the Sparta be metered at the well. If yours are not  
18 currently metered, I encourage you to move as  
19 expeditiously as possible to meter all of your wells.  
20 It is impossible to really know how much you're pumping  
21 and how much you're leaking if you're not metered at  
22 the well. It is also essential that all of your  
23 customers have meters. If your structure still allows  
24 for a flat rate and you don't have meters at your end  
25 users, then I encourage you to move as expeditiously as  
26 possible here to remedy this situation. Again, a  
27 proper rate structure will give you the revenues you  
28 need to help pay for these meters.

29 It's my understanding from LRWA that most lenders  
30 today will not lend money for newer or expanded rural

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1 water systems unless you have metered wells and metered  
2 users and a reasonable rate structure for your system.

3 For those of you who may be involved with systems  
4 that are too small to raise the revenues necessary to  
5 improve your system, I encourage you to look for ways  
6 to partner with other systems or to be merged into  
7 other systems. I am aware of several systems within  
8 the Sparta that, even though they're separate systems,  
9 are connected to one another so they can back each  
10 other up in times of emergency.

11 Some of you are problem familiar with what used to  
12 be known as the "Governor's Office of Rural  
13 Development," whose funds were eliminated last fall  
14 after Katrina and Rita. I am pleased to report to you  
15 that the Legislature was able to recreate or create a  
16 new CDBG fund similar to the Federal funds under this  
17 definition. This funding will really function fairly  
18 similar to the way that the old GORD funds did in the  
19 past. Applications could be made for these funds, and  
20 I believe my colleagues and I will look favorable  
21 towards projects that improve rural water systems,  
22 provided that these systems are doing the things they  
23 need to do to run efficient, solvent water systems.

24 I believe most all of you are familiar with, have  
25 worked, or are currently working with the LRWA. If  
26 you're not, I strongly encourage you to do so. And for  
27 those of you who already work with them, if you've not  
28 had your systems checked recently for leakage, I ask  
29 you to be in touch with LRWA to get that done as soon  
30 as possible so that we can have current information on

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1 the leakage of the systems. For those whose data  
2 indicates high levels of leakage and who have addressed  
3 these issues through improvements, I believe it's time  
4 for you to be checked again so that we can ascertain  
5 what kind of progress you've made.

6 We need to be diligent about targeting a leakage  
7 rate of 15 percent or less. I'm told that the national  
8 average is 10. The Louisiana average is 25. The  
9 Sparta average is greater than 30. Our estimate of 12  
10 million gallons per day is predicated on reducing  
11 leakage to 15 percent. Clearly, if we can target the  
12 national average of 10, we can save several million  
13 additional gallons per day.

14 This is no longer an issue that we can ignore, and  
15 I'm confident that you, as individuals involved in  
16 water systems, will make every effort to reduce the  
17 leakage in your systems to guarantee that your systems  
18 are financially solvent and that you have a rate  
19 structure that encourages conservation.

20 I hope that that covered the overall situation  
21 fairly well. I'd now like to just show you a couple of  
22 things, and then I'll be glad to take any questions or  
23 move on, because you've got an agenda.

24 I want to commend the Ruston Publishing Company,  
25 parent company of Ruston Daily Leader, and their  
26 partners throughout the area, but as we all know, Tony  
27 knows, the Commissioner knows, that they have been  
28 great advocates in this situation with regards to the  
29 water. They've not always agreed that everything we  
30 were doing was exactly the right things to do, but they

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1 have been big players, great advocates.

2 Now, this is a list, and I'm going to -- they  
3 asked me to bring it and leave it with you as a gift to  
4 you to be aware of. But this is the PR battle that  
5 they've done themselves, and they've raised -- they're  
6 telling me that they've raised the equivalent of a  
7 quarter of a million dollars in free advertising, if  
8 you will, that's running, supposedly, from central  
9 Louisiana all the way up north. I can attest to the  
10 fact that The Leader and The Gazette and papers in our  
11 areas are running these regularly, all of these efforts  
12 to try to get you and I to do things that use our water  
13 more reasonably.

14 I can tell you that I've personally changed my  
15 habits significantly with regards to how I shave, brush  
16 my teeth, flush the toilet, things of this nature, and  
17 you can do so with never missing one beat in life's  
18 quality. I mean, it's unbelievable that I've wasted  
19 the water I've wasted in my lifetime brushing my teeth  
20 when you don't have to have the water running full  
21 force to do that. I mean, you know, you can dampen the  
22 brush, cut it off, brush your teeth. It's an amazing  
23 thing, so no telling how many million I've run down the  
24 drain. And just because your system is not in stress  
25 is no reason you shouldn't be practicing these same  
26 policies. In shaving, draw a little hot water in the  
27 basin and shave. I can't tell that my shave has  
28 changed whatsoever, but I think I'm three, four, five  
29 gallons of water now every time I shave. So we're  
30 trying to get people -- and, you know, there are other

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1 things, for you gentlemen in the room, courtesy flushes  
2 are out now, if you will. It just takes too much water  
3 to flush those systems, so, I mean, we can't do that  
4 anymore. You know, if they're leaking, you've got to  
5 fix them.

6 That's what they're doing. I think it's a great  
7 piece, and I'll leave it with you, so we've got that  
8 and all. I'll give that to you all.

9 The Ag Extension people have really championed for  
10 us, and they're primarily targeting the schools through  
11 the 4-H Clubs. And, I mean, this hasn't come by  
12 accident. We've been in strong negotiations with them.  
13 You know, the Ag Center has really needed advocates in  
14 its budgeting process the last few years, so we've been  
15 negotiating with one another about just how we would  
16 get all this done, and they've really promised -- and  
17 it's a perfect fit for them in their mission. And so  
18 they have put together and distributed these kits, and  
19 I'll leave one of these for you here, as well.

20 And we got off to a big start with it this spring,  
21 right before school was out, these went home throughout  
22 all of the north Louisiana areas and quite a number of  
23 areas there. They have produced as much -- in fact,  
24 I've got a statistic somewhere, if I can find it for  
25 you, tell you what they've already done. Yes. They  
26 distributed, before school was out this year of their  
27 educational materials, fact sheets, and what have you,  
28 65,500 of those through the schools, and it's already  
29 been a part of the 4-H Club. They have put together a  
30 teaching resource so the teachers not only can share it

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1 in the classes, but they've built the resource  
2 materials for them to actually teach in the classroom  
3 on their -- you know, really, to change habits, you  
4 change it with the youngsters, so I'm quite proud of  
5 what they're doing.

6 In addition to that, they put together a water  
7 resources trailer, a lab, and we've had it in north  
8 Louisiana for the last several weeks, so you may have  
9 seen it when it was at the Peach Festival in Ruston,  
10 and I think they gave out over 500 pieces that they  
11 accounted for there. It was at the Watermelon Festival  
12 this weekend in Farmerville. So it's an ongoing tool.  
13 It's a PR tool, educational tool. So I'm quite, quite  
14 proud of what they're doing in that area, and that's  
15 the -- so they are the lead team for us in our public  
16 education and the changing of our personal habits.

17 I brought also for you -- before they got their  
18 materials done -- these are pieces that I print and  
19 distribute everywhere. And basically, if you look at  
20 their tips and these tips and our tips, I mean, they're  
21 all basically the same tips. It's just the more ways  
22 you tell it and the more ways you show it, the better,  
23 so we have these things together here. We're  
24 encouraging people, showing them how easy it is,  
25 playing to their decency, their stewardship. You know,  
26 the Lord created us to have dominion, but he told us to  
27 be good stewards and we've been grossly wasteful, and  
28 we're trying to work on that and improve that  
29 situation.

30 Some of the things -- I may have mentioned it, but

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1 I want to see if I've missed anything. That was the  
2 one I told you about, the 500 at the Peach Festival.  
3 This is from the Ag people. They had another 500  
4 participants gain knowledge through a presentation that  
5 they did in another location. Just in Lincoln Parish,  
6 we sent out 7,000 of the water-saving tips. Our  
7 superintendents, our school systems, really cooperated  
8 with us, so that is moving well there. Of course,  
9 Louisiana Rural Water Association -- and the reason  
10 that we just got this started in the last few months is  
11 because the same thing you already talked about. We  
12 were scheduled to do it a bit earlier, but then the  
13 twin witches came and visited us, and I would say they  
14 had their hands pretty full for several months, but we  
15 did have this the other day in this area.

16 And so between these four, all of which are  
17 completely, completely transferable to each of you who  
18 have your own issues in your own areas. And, I mean,  
19 water, you know, in most places in the world, it's the  
20 most precious commodity. There are places where it's  
21 worth a lot more than oil, so if it hadn't -- the  
22 problem hadn't visited you yet, it probably will at  
23 some point, and every one of these ideas are  
24 applicable, I believe, to you.

25 And what we see now is that if we practice  
26 reasonable conservation, and then if we do a reasonable  
27 job of detecting and improving our rural water systems,  
28 then, actually, we can reach equilibrium in the Sparta  
29 through those two. We can reach our 17-million-gallon  
30 target there. Then when we complete our project in

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1 West Monroe and Farmerville and any of these others,  
2 now we are securing our future for the next 75 or 100  
3 years or longer. And, of course, as soon as we are  
4 successful in West Monroe, which we're confident we  
5 will be, then it simply becomes a matter of studying  
6 the numbers to see if that makes sense that's stone in  
7 other places, you know. Do you have enough gray water?  
8 Is that a good alternative? We're looking at the  
9 various things. Representative Fanning has legislation  
10 in place to create a reservoir for stone in that area.  
11 But what we'll do, as we move forward then, once we see  
12 how this goes, then you weigh using water treatment  
13 versus building a reservoir, which one can you do  
14 quicker, which one can you do for less money, which one  
15 works better long-term, apply those things, and we can  
16 get through it.

17 I am very strong, and I'm saying that every one of  
18 my constituents and friends that I talk to that, you  
19 simply cannot -- I will not come to Baton Rouge or ask  
20 Rodney to go to Washington and lean on the citizens of  
21 the rest of this state and the other states and ask you  
22 to come solve a problem for us that we aren't willing  
23 to solve for ourselves. So we must practice  
24 stewardship, and we must work on these water systems,  
25 clean up the leakage, get the rate structures right,  
26 and what have you, and I think you'll see us move  
27 rapidly in that area.

28 I'm looking forward to seeing from our U.S.  
29 geological friends up there, and I want to get with him  
30 and see again -- because they monitor the test wells

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1 and all, and begin to see, even the things -- because  
2 we've been at our little public education part now for  
3 several months. It would be nice to see if we're  
4 beginning to see anything in that area, but all that is  
5 important.

6 So I think that's about it. I probably took too  
7 long, but I'll be glad to take a question or get out of  
8 you all's way, whichever is better.

9 MR. KIRKPATRICK:

10 Thank you, Representative Downs. I did have a  
11 question. I was interested, you know, your discussion  
12 about the leakage problem.

13 REPRESENTATIVE DOWNS:

14 Yes, sir.

15 MR. KIRKPATRICK:

16 At the Louisiana Rural Water Association meeting,  
17 did they say the most -- talk about kind of the most  
18 common ways to address those leakage problems and the  
19 costs associated with that, or is this something that  
20 better management by the Rural Water Associations could  
21 take care of or do they need outside assistance for  
22 this, or what's kind of the nature of --

23 REPRESENTATIVE DOWNS:

24 That is a good question. And by the way, that --  
25 this -- all of what I'm sharing with you was from a  
26 meeting that we actually had in Ruston, where they all  
27 came there to specifically address this issue.

28 But, first of all, the only way to know for sure  
29 to know about the leakage, according to them, is  
30 metered at the well, metered at the end user. That's

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1 the only way to know for sure, all right.

2       Then, the leakage, there are a number of things  
3 that drive it. Many of these systems are underfunded.  
4 They just -- their rate structure is so low, they don't  
5 have any money. And the fact of the matter is, people  
6 will pay for water. Don't think for a second that  
7 people can't afford to pay -- and I don't want to get  
8 too carried away with this, but let me just tell you.  
9 In Ruston -- I did a little checking -- and at Super 1,  
10 a grocery store, I went out and visited with them out  
11 there, and without even going and checking his data, he  
12 tells me he can guarantee me that he's selling between  
13 500 and 1,000 cases of bottled water every week out of  
14 that store right there. And he said, "I can tell you,  
15 Super -- Walmart Supercenter is probably selling double  
16 what I am." So -- and that's about \$1.00 a bottle, or  
17 whatever they get for it. And by the way, you know  
18 where it comes from? It comes out of the Tyler, Texas,  
19 water system. They bottle it up right out of the tap,  
20 and Tyler is sending it over to Ruston and our folks  
21 are paying \$1.00 a bottle for it. So don't think you  
22 can't get an adequate rate structure in place to pay  
23 for these things if you just do the right thing and put  
24 them there.

25       But that's -- so -- the other thing they tell us  
26 is, in a lot of cases, where they have turnover with  
27 their operators and what have you, and where they  
28 aren't keeping good data, they look up there and let's  
29 say they pumped half a million gallon -- a million  
30 gallons this month, if they don't have records -- it's

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1 a new operator, they don't have records, then he or she  
2 don't have any way of knowing something is wrong  
3 because you've never pumped over 750,000 ever before  
4 from along the line, and so keeping these records is  
5 absolutely imperative in this situation.

6 So it's mainly -- it's a combination of not really  
7 knowing up until this point -- I don't want to be harsh  
8 with this -- not really caring, in other words, not  
9 appreciating the significance of it, not having any  
10 empirical data to compare it to because they haven't  
11 kept good records in the past, this type of thing.

12 That's why we have to do each one of these steps.

13 Now, having said that, you may say, oh, well, then  
14 how can they estimate this kind of leakage along the  
15 line, and it's a pretty good question, but they're  
16 confident, pretty confident, in their numbers of what  
17 they're telling us. I mean, they didn't have much  
18 doubt that was accurate, right?

19 MR. WOODS:

20 Yes, sir.

21 MS. IRION:

22 Hi, Representative Hollis. I'm Karen Irion. I'm  
23 the drinking water administrator for the State, you  
24 know me.

25 REPRESENTATIVE DOWNS:

26 Yes, ma'am.

27 MS. IRION:

28 Anyway, also, EPA initiated this year a huge water  
29 conservation program, as well, and they have a lot of  
30 free brochures and data. Of course, some -- that's

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1 targeted towards those western states who haven't got a  
2 drop to rub together at this point and they're really  
3 out of water, and we have plenty of water in most of  
4 the state, but again, the ground water systems are  
5 being depleted. We're not as bad as the Ogallala at  
6 this point with the Sparta, but understanding that we  
7 need to do population pressures to get that over --  
8 overuse of the water.

9 I think that, you know, LRWA is our partners that  
10 we work with all the time on the rural water systems,  
11 and that we -- EPA also has a regionalization of  
12 systems in place to help systems, smaller systems,  
13 combine together. And, of course, out of our office,  
14 under the Loan Fund, we have free assistance for  
15 systems who are looking to -- under our capacity  
16 development program to help them get on a foot -- you  
17 know, a rate-footing basis where they can figure that  
18 out, along with the -- it's managerial, technical, and  
19 financial to help them get up and running. So our  
20 folks do help out with that quite a bit, and it's free  
21 for the systems, so, you know, you can't get that kind  
22 of an audit and that kind of -- and we also have Board  
23 member training, as well as our -- of course, our  
24 operator training that we do with LRWA.

25 REPRESENTATIVE DOWNS:

26 Right, and that's great. And I'm sure you all  
27 know that the LRWA services to the systems is also  
28 free. Now, they can't buy their new pumps for them or  
29 what have you, but, I mean, they go in there and do all  
30 their work, their testing, smoke testing, all that kind

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1 of stuff, and that's from Federal and State funding and  
2 what have you.

3 Yes, sir?

4 MR. WOODS:

5 I was just going to add, one of the programs that  
6 LRWA offers to communities with small water systems is  
7 a free leak test. If you've got a leak that you can't  
8 find or you think you've got -- wasting too much or  
9 something, you can get on a schedule with us, and we'll  
10 come in and we'll find the leaks for you. And that's a  
11 free service, and that comes from the money that we  
12 come down and ask for every year to sponsor our  
13 programs. I might add to that, Representative Downs is  
14 one of our biggest supporters on that and helps us  
15 obtain money so that we can provide these programs.

16 REPRESENTATIVE DOWNS:

17 Thank you very much. I appreciate that. That's  
18 right. And what we've found out in some of the -- like  
19 I said, in my own district, looking, I saw systems on  
20 there. Frankly, one or two, I was very pleasantly  
21 surprised about, because I know some issues we've dealt  
22 with before, dealing with leakage. But in their latest  
23 tests, they've got their numbers in single digits. I'm  
24 talking about 8 or 9 percent leakage, but then, in my  
25 same district, there was one of there who had 65  
26 percent leakage. We think that's been dealt with.  
27 They knew they had bigger problems, but they also knew  
28 we were five-laning the highway and they thought it  
29 made -- and they were going to have to move those  
30 lines, so they delayed it somewhat until those lines

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1 got moved. So it -- that's got to the point we need to  
2 retest now. We're probably going to find out we're  
3 saving a lot of water now. I mean, I hope we're going  
4 to find out we're saving a lot of water.

5 Anything else?

6 MS. WALKER:

7 Yes, yes.

8 REPRESENTATIVE DOWNS:

9 Yes, ma'am.

10 MS. WALKER:

11 I'm from New Orleans, and, of course, they are  
12 having a tremendous leakage problem also with the City  
13 water system, which, of course, is surface water. But  
14 they have gone to a sonic detector to find the leaks,  
15 and it's about the size of a Coke can. They just lower  
16 in, and it -- by sound waves, they can detect the --  
17 where the water is coming, and it detects the very  
18 large leaks. And what they have found is, although we  
19 see water on the surface where it bubbles up, but the  
20 biggest leaks are going straight down, so they're not  
21 apparent to the visible eye. And what the gentleman  
22 over here was saying about the LRWA, they definitely  
23 should be using that technology to find the big leaks.

24 REPRESENTATIVE DOWNS:

25 Thank you so much. To both of you all, are we --  
26 is that the technology -- are we using that technology?

27 MR. WOODS:

28 (Nods head.)

29 REPRESENTATIVE DOWNS:

30 We are? Good, great. Yes, that's good. And,

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1 yes, those things -- well, they shared a story with us  
2 of one that broke -- one that broke in a creek bed,  
3 which at the time, the creek bed was flooded and what  
4 have you, all right. Had they not had empirical data,  
5 they wouldn't have had a clue, because it's hard to see  
6 if something is leaking when it's out there in the  
7 middle of a creek. But all of a sudden, they were  
8 losing hundreds of thousands of gallons, they knew  
9 something was wrong. And when they couldn't find it  
10 anywhere on the dry land, they went to the creek, and  
11 that's where it was. It was all -- that was part of  
12 the reason the creek was rising, I guess.

13 MR. KIRKPATRICK:

14 Any questions?

15 (No response.)

16 All right. Thank you.

17 REPRESENTATIVE DOWNS:

18 Thank you very much. I'll leave it here, and you  
19 all can look at it or do whatever you want to do with  
20 it.

21 MR. DUPLECHIN:

22 Thank you, Representative Downs.

23 One of the findings the Commissioner made in the  
24 Order was that users of Sparta ground water shall  
25 vigorously seek alternative sources of potable water to  
26 alleviate excess uses of the Sparta Aquifer.

27 As Representative Downs alluded to in his  
28 presentation, there is work going on in West Monroe  
29 between the City of West Monroe and Graphics Packaging.  
30 At this time, I'd like to ask Terry Emory and John

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1 Stamberg to come forward and kind of give a short  
2 report on the project that is going on in West Monroe  
3 to get Graphics off of the Sparta.

4 MS. EMORY:

5 I'm Terry Emory with the City of West Monroe.  
6 Thank you all for allowing us to come down here and  
7 give you an update on our projects. We're very excited  
8 about it. Mayor Norris has made this project his first  
9 priority, and he's working aggressively to get it  
10 going.

11 We had about a year of delay in getting the  
12 funding because of the hurricanes. I think we were  
13 supposed to get it in August 2005. We just got it this  
14 August -- or this September, but we did receive a  
15 \$600,000 grant from the State for our pilot project,  
16 which will treat one million gallons of water.

17 Right now, our treatment plant discharges an  
18 average of 7 million gallons a day. The long-term goal  
19 will be to let outlying sewer systems connect onto our  
20 sewer system to increase our flow to 10 million gallons  
21 a day that we can treat and send back to Graphic  
22 Packaging for process work.

23 We've spent a lot of money. Graphic Packaging has  
24 spent a lot of money, but they -- they went to all  
25 their customers and did a survey, and everybody was  
26 excited about, you know, recycle and reuse, but they  
27 want the water to meet drinking water standards. They  
28 have about a 78-page EPA list of water regulations that  
29 they need to meet for food contact paper. So we have  
30 done a tremendous amount of bench-scale testing, and we

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1 can take the gray water, treat it, and meet every one  
2 of those regulations.

3 John Stamberg has a presentation -- now, the big  
4 article that we've handed out, that was a really  
5 positive article from the paper in Ruston. It was  
6 reprinted in West Monroe by the Ouachita Citizen, but  
7 it explains the program.

8 John Stamberg has put together another  
9 presentation that he'd like to go over that will  
10 explain more of the technical part of it, and also how  
11 long we've been working on this; it's been years, you  
12 know, since '95 -- '94, '95. We've been working on it  
13 a long time. This is John Stamberg with Energy  
14 Ventures Analysis out of Arlington, Virginia.

15 MR. STAMBERG:

16 A carpetbagger.

17 MS. EMORY:

18 Yes. Anyway, he's a consulting engineer for the  
19 City of West Monroe.

20 MR. STAMBERG:

21 I want to take this opportunity -- I'm not going  
22 to spend too much time, Tony Duplechin said about ten  
23 minutes or he would break my wrists, but anyway...

24 I'll sort of go back to the beginning. The Sparta  
25 Commission -- the Commission that Meyer and Meyer,  
26 LaCroix, Hixson, we call it the Hixson Report, to do a  
27 study. What they came up with in the second page is  
28 the highest priority project was the West  
29 Monroe-Ouachita River Project, that was intended to  
30 take water from the Ouachita River, create drinking

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1 water, and that would be 10 MGD and displace the well  
2 system for West Monroe and the suburban areas. That  
3 project, in the next page, was projected in 2002  
4 dollars to be about \$56-, \$57 million. The whole  
5 Sparta project was about \$200 million to solve the  
6 problem in their report. The next thing is the  
7 operating cost, which was \$2.7 million for the West  
8 Monroe and suburban area, and it was about \$7 million  
9 all together.

10 So what the Mayor of West Monroe, Dave Norris, did  
11 is look for alternatives that would be more economical,  
12 and this chart shows that. In other words, the Hixson  
13 Report indicated, which is on line B-2, that it would  
14 be about \$55.7 million. Well, we think the waste water  
15 upgraded to drinking water, it would be about \$16  
16 million, so it's about one-third to one-quarter of the  
17 cost of going to the surface water for the same amount  
18 of displacement. Its operating costs are also cheaper,  
19 and so we've been pursuing that direction.

20 One of the things, this is a little map, the thing  
21 that looks like intestines of a frog, is the Graphic  
22 Packaging waste water treatment system. The square  
23 area is the waste water treatment system for West  
24 Monroe and the greater Ouachita Sewerage District #5,  
25 which collects the sewerage from the greater Ouachita  
26 water systems that serve those areas. It's about a  
27 mile and a half distance between it, so some of the  
28 savings is in close proximity of the two facilities,  
29 and that saves distribution system.

30 Real quickly, this map and -- oh, anybody that

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1 wants more of a handouts just -- give Terry or I the  
2 handout, because there's more things in that than I can  
3 address in about five minutes. But this little area  
4 here called "Sub," the City purchased that land  
5 adjacent to its waste water treatment system to have  
6 the site for the upgraded facility.

7 The second piece is, before the State grant, the  
8 City -- the West Ouachita Sewer District #5 and Graphic  
9 Packaging had spent about \$400 million and some odd --  
10 or \$400,000 and some odd. Graphic Packaging's effort  
11 was to get FDA approval and customer approval and do an  
12 engineering study on that. The effort with the  
13 customers said, hey, you can meet the regulations for 8  
14 million, but the customers don't want food packaging  
15 unless it comes from drinking water. Well, if we  
16 could, for half the price, meet the water quality that  
17 they're using now, because half of it does come from  
18 the river with just alum treatment. Psychologically,  
19 we've got to go to drinking water using activated  
20 carbon or their competitors will say, lick your  
21 sewerage ice cream carton and buy it from us. So,  
22 psychologically, that's realistic, and we have to  
23 double the price to satisfy the customer and the  
24 industrial relationship.

25 The next page is a summary of how we're going to  
26 spend the \$600,000, and added to that is the "In Kind"  
27 and previously spent efforts, so they will be about  
28 \$1.2 million in this effort to do that. Part of  
29 getting there and part of the quarter million that the  
30 City of West Monroe and the Sanitary District put out

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1 was to do a bench-scale test of the technology to prove  
2 that we could make drinking water from top to bottom,  
3 and that's what we spent about a year doing, sorting  
4 out a bunch of different technologies and sorting out  
5 cost-effective treatment plants.

6       There's two other places in the world -- EPA did a  
7 study throughout the world of who's upgrading waste  
8 water or gray water to drinking water qualities. Two  
9 places do it, Namibia, South Africa, which is adjacent  
10 to the Kalahari Desert. I think Angelina Jolie and  
11 Brad Pitt have been drinking this water. Two-thirds is  
12 fresh water, one-third is reclaimed waste water to  
13 drinking water quality. The other place is in Durban,  
14 South Africa, and they're upgrading the water to  
15 drinking water quality and sending it to a paper mill  
16 for food contact paper, a real parallel situation to  
17 what we're doing.

18       The next two pages, you can take a look at, but  
19 we've really summarized what the benefits are to West  
20 Monroe, the West Ouachita Sanitary District, Graphic  
21 Packaging, the whole Sparta region, State of Louisiana,  
22 and the rest of the U.S. There's so few of these  
23 projects that people on the fringe -- in other words,  
24 there's Pilgrim's Pride chicken, they're not going to  
25 go to recycled sewerage for psychological reasons, and  
26 so it's real. But there's going to be a lot of people  
27 in the U.S. looking at this type of project to see how  
28 it's done, its economics, and probably the first type  
29 of use would be in the industrial processes, as opposed  
30 to human drinking water. California has had a couple

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1 of projects where they wanted to reclaim it, put it in  
2 reservoirs for 200 days, and the California just go  
3 nuts. So there's a psychological aspect to this. It's  
4 real. We're doubling the cost, and it's going to keep  
5 jobs in the area, save the Sparta, and the loss of some  
6 -- you know, urban-suburban growth in both areas. You  
7 can go over that in some detail.

8       The basic system is alum treatment. Two different  
9 ways of doing it, one is if it comes from the river,  
10 you've got silt, those little anchors, and you just  
11 sink it. That's what Graphic Packaging is doing with  
12 10 of their 20 MGD's, recovering it with that. When  
13 you have an algae pond, you have no weight so we're  
14 going to dissolve air flotation, add bubbles in the  
15 aquifer, and float the material up top. Then you take  
16 the soluble material and run it through activated  
17 carbon, and it's very much like these little things  
18 that you put on a system at the households and all  
19 that, and that takes out all the soluble, organic  
20 materials, the pesticides, the small virus, and all  
21 that type of thing.

22       Then I've got two pages in here that's really a  
23 chronology, starting in 1995 to present, on the  
24 activities that West Monroe has been following, on the  
25 other side is the Sparta Commission activities on the  
26 same time, and then in the middle is the technologies  
27 that we looked at on the bench scale and why we, you  
28 know, narrowed it down to this. The two other projects  
29 in the world that are going to drinking water quality  
30 are using the same basic coagulation, all of our

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1 activated carbon technology. Reverse osmosis will  
2 work, but it makes the river system at \$56 million look  
3 cheap. That's a very expensive technology.

4 Then on the project, we've got the funds released,  
5 and this is a summary of what we've done so far. We've  
6 got the dissolved air flotations. We bought used  
7 equipment. That's been bid, procured, and on site. We  
8 just published last week bids for the pressurized  
9 activated carbon units. Graphic Packaging has donated  
10 the alum tanks and the backwash tanks. We need to  
11 store some backwash tanks that backwash the equipment  
12 every so often, so that's \$50-, \$80,000 worth of  
13 donations that they've provided. We're changing the  
14 electric power so we have enough power for the  
15 demonstration, and we're upgrading it to the full  
16 scale. We're being optimistic. The pump equipment,  
17 we're going to finish that design in August, as well as  
18 the site work. And then the final erection, once we  
19 know, after shop drawings of the equipment, we'll  
20 finish that design and have that on -- you know, bid in  
21 September.

22 The project schedule, looks like we're going to be  
23 able to start up the demonstration project in late  
24 December of this year. It will probably be a year's  
25 worth of research, probably about midway through that  
26 research we'll have a no-go decision or a decision to  
27 keep refining that. We can then make final cost  
28 estimates, get wetlands permits if we need some,  
29 there's some in that area, in that purchased land that  
30 is probably going to be wetlands and we'll have to

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1 address that minor problem. And then that's a good  
2 time to address the business arrangement, the funding  
3 arrangement, and all that. Once we know what it's  
4 going to cost, then we can figure out how it's put  
5 together as a package to benefit the Sparta, West  
6 Monroe, the State, and everybody else. The start of  
7 construction can be as early as January 2008, and could  
8 be full scale, online in January 2010.

9       Then there's another subtle thing that you run  
10 into with the Sparta, not only the quantity of water  
11 but the quality goes downhill, and the best way to look  
12 at that is the regulations for trihalomethanes and  
13 haloacetic acids or disinfection by-products. And  
14 really, what they are is, when you chlorinate water  
15 that has some background Lignin, Tannin, and those type  
16 of chemicals that you get from the ground water that's  
17 been there since dinosaurs first took a dump, okay,  
18 that water has no background chemicals. When you  
19 chlorinate it, you break off both methane and acetic  
20 acid type of compounds, that combines with chlorine,  
21 and more importantly, the bromine. And what you have  
22 is, when you get sodium in there, you're also getting  
23 bromine, and it's in the form of a salt bromide, but  
24 when you put chlorine in there, it changes it to  
25 bromine gas, and that reacts with the methane and the  
26 haloacetic acids. In West Monroe, 90 percent of the  
27 trihalomethanes, are bromine compounds, okay.

28       Then in the final slide is sort of the history of  
29 one of the wells there. In '94, the color, which is  
30 really the reflection of the Tannin, Lignins, and those

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1 kind of compounds, so it's 5, and now that's gone up to  
2 35 to 40 recently. Sodium wasn't well measured on all  
3 the wells, but this well it was, that's been  
4 increasing. And more importantly, the bromide that  
5 goes to bromine that goes to the trihalomethanes has  
6 been increasing. So the City also has a problem with  
7 solving their trihalomethanes, and I think there's 135  
8 other communities in Louisiana that are fighting the  
9 trihalomethanes for the same reason. So the salt just  
10 isn't the salt problem from the sodium standpoint, it's  
11 the trihalomethanes and those type of things, and  
12 there's a lot of expense in doing that.

13 So that's the basic thing. Anybody that wants  
14 some of these handouts, give Terry or I your name, and  
15 we'll get you a copy of it. If anybody has any  
16 questions, you can ask me now or afterwards.

17 MS. IRION:

18 I have a question. I'm Karen Irion, again, with  
19 Department of Health and Hospitals; I'm the drinking  
20 water administrator. Karen, you might answer this,  
21 too. By the way, Karen Gautreaux with DEQ is here.  
22 She snuck in.

23 The term "gray water" that you've been using, I'm  
24 not sure if that's correct terminology. "Gray water"  
25 refers to water that's not sewerage-related; that is  
26 from sinks, bathtubs, and laundry facilities. This  
27 looks like entirely sewerage water that's been  
28 partially -- or treated or partially treated; is that  
29 correct?

30 MR. STAMBERG:

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1 I was educated as a sanitary engineer with waste  
2 water effluent.

3 MS. IRION:

4 Waste water effluent or treated waste water, but I  
5 keep seeing the term "gray water," so I don't  
6 understand why that's here.

7 MR. STAMBERG:

8 Not my term.

9 MS. IRION:

10 Okay.

11 MR. STAMBERG:

12 Not my term.

13 MS. IRION:

14 Okay. But it could be confusing to people,  
15 because there is a gray water discharge, too.

16 MR. STAMBERG:

17 The EPA, in their reuse document, uses "gray  
18 water" or "disinfected sewerage effluent."

19 MS. IRION:

20 Yes. That's not a good terminology.

21 MR. STAMBERG:

22 There's a lot of that terminology thrown around.  
23 I'm not sure that that's the whole gray water concept.  
24 Gray water tends to be shower water and those kinds of  
25 things --

26 MS. IRION:

27 Right.

28 MR. STAMBERG:

29 -- in my terminology.

30 MS. IRION:

1 Right.

2 MR. STAMBERG:

3 The EPA uses disinfected waste water effluent.

4 MS. IRION:

5 If they used that in their guidance document, they  
6 were incorrect. But the fact is, is that we have  
7 color-coding for reused waste water, and it's purple.  
8 So if you do transport waste water in pipelines for  
9 reuse purposes, it needs to be color-coded  
10 appropriately. And I just wanted to point that out,  
11 that's in our code, and --

12 MR. STAMBERG:

13 Yes.

14 MS. IRION:

15 But I just also wanted to make sure that it was  
16 clear, because it could be very confusing to people.  
17 There's a big difference between treated waste water  
18 and gray water.

19 MR. STAMBERG:

20 The City of West Monroe uses waste water effluent.

21 MS. IRION:

22 Right, treated waste water effluent.

23 MR. STAMBERG:

24 The press uses the term "gray water." I don't  
25 think that's consistent with the way I talk. I don't  
26 write the articles. The article, in general, is good,  
27 but if you look at our --

28 MS. IRION:

29 So, really, the --

30 MR. STAMBERG:

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1           -- water quality from a color tri -- we had zero  
2 trihalomethanes and haloacetic acids in our water,  
3 okay. It's a better water -- if you looked at the  
4 datum from our bench test and what Graphic Packaging  
5 and what the Sparta is, you'd choose the treated  
6 effluent, until you found out where it was from, then  
7 you'd go, yuck.

8 MS. IRION:

9           Well, yes, but the treated effluent is going to --  
10 if you're going through RA, the treated effluent is  
11 going -- but I just -- Tony, we have the heading on  
12 there as "West Monroe Gray Water Project." It should  
13 be "West Monroe Waste Water Reuse."

14 MR. DUPLÉCHIN:

15           And that is correct, and we will make an amended  
16 agenda to correct that.

17 MS. IRION:

18           All right. Thanks. That was my comment.

19 MR. STAMBERG:

20           Is there any other questions, comments?

21 MS. GAUTREAUX:

22           I'll just make a comment. I think this is  
23 incredibly encouraging. I remember when we were  
24 discussing the originations and the reason for the Task  
25 Force and the Commission's existence, there was a lot  
26 of talk about alternatives, and I think it's wonderful  
27 to see this potential alternative coming to fruition.  
28 We've heard about it in the works for quite a while, so  
29 I'll be looking forward to keeping updated with your  
30 progress.

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1 MR. STAMBERG:

2 Thank you. Worldwide, the key to this is Graphic  
3 Packaging, okay. People don't have to drink it. They  
4 just have to eat Ben and Jerry's out of the cartons,  
5 and psychologically -- no, I follow this stuff, and the  
6 psychological impasse is real. We're spending another  
7 \$8 million because it's real, okay. And so the Graphic  
8 Packaging, their cooperation, and their enthusiasm for  
9 this project, God bless them.

10 MS. IRION:

11 Well, from an engineering point of view, there's  
12 -- all water is reused -- or most water is reused, and  
13 especially any surface water, so, you know, from an  
14 engineering standpoint, we understand completely, but  
15 we also understand the psychological implications. But  
16 I agree that the project is great, so...

17 MR. STAMBERG:

18 People will take the Ouachita River, three days  
19 from the sewerage effluent fight in Arkansas, and have  
20 no problem. It's -- in the waste water treatment algae  
21 ponds, 30 days, okay. So nature has ten times as much  
22 effort working on that water, but it's psychologically  
23 there.

24 MS. IRION:

25 Well, there are cities like El Paso and some  
26 places in Georgia where they actually are putting --  
27 reusing waste water and putting it back into the  
28 drinking water programs, so it's coming to a lot of  
29 places that are strapped for drinking water.

30 MR. STAMBERG:

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1           We'll see more of this.

2           Anything else?  If anybody else has any questions,  
3 just tap us on the shoulder after the meeting.

4 MR. KIRKPATRICK:

5           Okay.  Thank you all.

6           All right.  Tony, let's go down to next item on  
7 the agenda.

8 MR. DUPLICHIN:

9           Thank you very much.

10          Our second item under "Old Business" was an update  
11 on the proposed language for regional water advisory  
12 groups.  At our last meeting in June of last year,  
13 there was some confusion as to what the status of that  
14 proposed language was, and what had happened was, we  
15 had decided -- we, being the Office of Conservation, to  
16 wait until the end of that session, legislative  
17 session, that was in at that time before moving forward  
18 with this.  And unfortunately, the storms hit us, and  
19 we kind of didn't move forward with it as quickly as we  
20 had hoped.

21          What I would like to do, at this point, I have  
22 included our most recent version of the language in the  
23 Commissioner's packets.  I would like for you to take  
24 this back and review it, and I have copies available  
25 for the rest of those in attendance.  And for those  
26 Commissioners that are not here, we will be sending  
27 them a hard copy.  Review it and we will move along  
28 with it at the next Commission meeting, if that is okay  
29 with the Commissioner.

30 MR. KIRKPATRICK:

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1           Tony, I'm looking for it in our package.

2   MR. DUPLÉCHIN:

3           It's under "Notice of Intent Office of  
4   Conservation Ground Water Resources Division."

5   MR. KIRKPATRICK:

6           Okay. Yes.

7   MR. DUPLÉCHIN:

8           Two columns.

9   MR. KIRKPATRICK:

10          Third to the last page in my packet.

11   MR. DUPLÉCHIN:

12          Okay.

13   MR. KIRKPATRICK:

14          Okay. Great.

15   MR. DUPLÉCHIN:

16          Okay. Moving along to new business, I'll give you  
17   a brief update on legislative -- legislation that  
18   affected the Commission. Act 29, which was introduced  
19   as House Bill 368 by Representative Damico, cleared up  
20   some of the language that had been changed the previous  
21   session concerning critical ground water areas and  
22   areas of ground water concern. There were two places  
23   where "area of ground water concern" did not replace  
24   the phrase "critical ground water area," so, basically,  
25   that's all that Act 29 does.

26          Act 30, which was introduced as House Bill 372 by  
27   Representative Damico, changed the meeting frequency of  
28   the Ground Water Resources Commission from once per  
29   calendar quarter to twice per calendar year. That  
30   still says that the Commission may meet more often as

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1 necessary.

2       The next item under "New Business" is a panel  
3 discussion from representatives of DOTD, DHH, DEQ, and  
4 U.S. Geological Survey about the effect of Hurricanes  
5 Katrina and Rita on Louisiana's ground water resources.  
6 So, at this time, I'd like to ask Howard Fielding from  
7 DEQ, John Lovelace from USGS, and Karen Irion from  
8 Department of Health and Hospitals if they want to, to  
9 come down to the table here. Brad Hanson, who was  
10 going to give the report from DOTD, had an accident  
11 yesterday, and he's at the doctor's this afternoon  
12 having his knee looked at, so I will be taking care of  
13 his presentation.

14       If the Commissioners could turn around and look up  
15 at the screen and follow along.

16       This presentation is part of one that Brad made to  
17 the Recovery Team with LRA concerning the effect on  
18 water wells. The problem that was determined was that  
19 well heads damaged by the two storms resulted in open  
20 holes, and over time, that would lead to aquifer  
21 contamination. He looked at information that DEQ had  
22 and the data -- damage assessment that they did in the  
23 field on 68 wells and compared that to some of the  
24 information that DOTD had in their database.

25       Issues at hand were how to notify property owners  
26 of the threat to the water supply, both in surface  
27 water inflow in these and -- into these open holes and  
28 hazards. DOTD mailed out letters to 480 identified  
29 property owners as a result of this.

30       This map shows the areas where the storm surge

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1 reached up into Louisiana from Hurricane Katrina and  
2 Hurricane Rita. Now, this graphic is a little bit  
3 difficult to read, but what it shows is that, in the  
4 areas affected by Hurricane Katrina, were approximately  
5 1,698 wells that were in the areas that were possibly  
6 inundated and had wells that could have possibly been  
7 damaged by the storm. On the southwest side of the  
8 State, 1,884 wells were within the limits of the  
9 inundation from Hurricane Rita.

10 So approximate -- almost 3,600 wells were  
11 identified. And the question remains, are there any  
12 others? Prior to 1984, wells were not required to be  
13 registered with the Department of Transportation and  
14 Development, so there's a good likelihood there are  
15 many, many more wells in these areas that have been  
16 damaged. We have to determine how many wells have been  
17 -- have sustained damage, and of those, what type of  
18 damage has occurred, and need to look into how to  
19 protect the local aquifers from any further damage.

20 Phase 1 would be to institute a damage assessment  
21 program. This would include identifying the production  
22 well locations by parish, DOTD data files augmented  
23 with local knowledge, and will require extensive parish  
24 cooperation and coordination. We then need to assess  
25 the amount and type of damage sustained; develop  
26 protocols for damage assessment, repair, and  
27 procedures; rehabilitation versus plugging and  
28 abandoning of each well. It may not be necessary to  
29 plug and abandon and reestablish each well. Some may  
30 just need some work to get them back in order. And all

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1 of this would require a site visit to each well that's  
2 in the database. And then we would need to implement  
3 temporary, short-term corrective actions, which would  
4 include placing an initial temporary cap on each well  
5 which would reduce further damage to the aquifer, and  
6 more than likely, require contact with the property  
7 owners.

8 The estimated cost of this project is \$700,000,  
9 that's at \$200 per well. Brad looked at the  
10 information from all the wells that were identified and  
11 came up with an estimated total linear footage of  
12 1,268,856 feet. And the cost to plug and abandon this  
13 -- all of these wells, at \$4.00 a foot, would be  
14 approximately \$5.1 million. Unfortunately, this work  
15 would not qualify for Community Development Block Grant  
16 Funding under LRA. And I may state a little bit  
17 further beyond this, we have made -- we, being the  
18 Action Team, have made a suggestion to LRA to find some  
19 way to fund the initial part of this project, which  
20 would be the field work, to go out and visually locate  
21 every well and determine what amount of damage was done  
22 to that well and what it would take to rehabilitate the  
23 well.

24 Any questions?

25 (No response.)

26 Okay. I'd like to ask Howard Fielding from DEQ to  
27 come up.

28 MR. FIELDING:

29 Good afternoon. I'm Howard Fielding with DEQ, and  
30 we got involved with Hurricane Katrina in terms of

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1 ground water sampling north of Lake Pontchartrain and  
2 also down where Rita struck.

3 We want to determine the inundation of water wells  
4 on the north shore of Lake Pontchartrain, and some of  
5 the parameters we were looking at were water quality,  
6 dissolved metals, nutrients, VOCs, and bacteriological,  
7 and this is what the Team was looking at. And the Team  
8 consisted of people from Louisiana State -- LGS Survey,  
9 and I think Thomas is in the audience today. That was  
10 a three-man team, and they were looking at bacteria,  
11 metals collections and analysis, and they compiled  
12 wells from the well registry from DOTD. Then the USGS,  
13 it was also a three-man team, with John Lovelace,  
14 present today, and he'll talk later. But they were  
15 looking at bacteria, also, clean metals, field  
16 parameters, the collection and analysis. They had  
17 field equipment for taking samples, and they put  
18 together the preliminary well selection. And from DEQ,  
19 we also had a three-man team -- or two-man team and a  
20 one-woman team, I should say, and we were looking at  
21 field parameters, water quality indicators, metals,  
22 VOCs, and we provided field equipment for taking  
23 samples. And the analysis for us was done by the LDEQ  
24 lab.

25 This shows the wells that we sampled north of Lake  
26 Pontchartrain, going from the northwest to the  
27 southeast along the eastern -- northeastern shore of  
28 the lake.

29 DEQ was involved in the sampling of 14 wells in  
30 September and October, we didn't do bacteria, and we

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1 did not find the drinking water standard maximum level  
2 exceeded when we finished with our final sampling. We  
3 didn't detect any volatile organic compounds in any of  
4 the wells that we sampled. We did have a problem with  
5 one well, which is the most southeasterly well, near  
6 the Rigolets. The unpurged results showed elevated  
7 components that indicated that the well had taken the  
8 surge and surge waters were in the well, but it also  
9 picked up selenium, which is a metal. But after the  
10 well was purged and resampled, it was at normal levels  
11 or non-detect. So there were bacteria problems, but  
12 John Lovelace was sampling for those with USGS, and  
13 he'll discuss that part of it.

14 Then DEQ continued sampling over in the  
15 Rita-affected area. We sampled in Calcasieu, St. Mary,  
16 and Vermilion Parishes in December of '05. Two  
17 Vermilion Parish wells were re-sampled in February '06,  
18 and the analytical data showed elevated levels of  
19 calcium, sodium, and again, selenium showed up, total  
20 dissolved solvents and suspended solvents and specific  
21 conductance. At any rate, what we were seeing were  
22 indications of salt water in these shallow coastal  
23 wells all the way across. Selenium was exceed -- had  
24 an exceedence of the MCL in two wells. They were two  
25 adjacent wells originally reported Selenium at 44.3 ppb  
26 and 50.4 ppb, whereas the MCL for Selenium is 50 ppb.  
27 Strangely enough, upon re-sampling, the results were  
28 even higher levels of this metal at 60.3 ppb, with --  
29 over an average of two samples, and 71.5 ppb. So the  
30 well owners were notified of the exceedence of the MCL

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1 and what the health effects are. We didn't detect any  
2 VOCs in any of the wells sampled. We didn't collect  
3 bacteriological samples, and we were sampling Rita  
4 alone. USGA, the survey, were not involved in the  
5 sampling effort.

6 Another part of our project in terms of ground  
7 water were releases, and we were particularly  
8 interested in source water protection areas. Because,  
9 in addition to an end being ground water monitoring  
10 program state-wide within the aquifer section, we also  
11 are interested in protecting drinking water, and the  
12 source water protection area is a certain area carved  
13 out around a drinking water well deemed viable for  
14 protection from contamination.

15 What we were interested, in particularly, were  
16 above-ground storage tanks carrying petroleum products  
17 or other chemicals that may have been released as a  
18 result of hurricane and, in particularly, close to  
19 drinking water wells. And we found three tanks on the  
20 north shore of Lake Pontchartrain and 12 in the Rita  
21 area, and we reported these to the Surveillance  
22 Division of DEQ for further investigation.

23 Also, as we were out sampling, we started to  
24 notice sheared off wells that were just opened at the  
25 surface, and we located 68 private damaged drinking  
26 water wells with potential for aquifer contamination,  
27 25 in the Katrina area, and 43 in the Rita area, and  
28 these wells were reported to DOTD for further action,  
29 because that falls into their area of jurisdiction.

30 This is an example of a spill from a tank in the

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1 Katrina area. And here's another one, the tank has  
2 just been moved from where it was originally and ended  
3 up here, and it had a petroleum product in it and it's  
4 leaked in the ditch, as you can see. So we GPS these  
5 things so that when we reported these to the  
6 Surveillance Division, you know, they would have the  
7 coordinates.

8 Now, some of the wells that we were looking at  
9 north of Lake Pontchartrain, in the next two or three  
10 slides, here, we're GPS-ing a well, and this is a close  
11 up of the well and it's opened at the surface, as is  
12 this one, just some samples of the type of things that  
13 we found. And someone tried to cap off this well with  
14 a water bottle. And as we go into the next hurricane  
15 season, we've ordered a bunch of plugs for the various  
16 type of diameter pipe that we were dealing with in  
17 order to plug these open holes on the spot and try to  
18 protect the aquifer. So we -- that's a lesson learned  
19 from these hurricanes that hit south Louisiana.

20 That concludes my presentation. Are there any  
21 questions?

22 (No response.)

23 MR. LOVELACE:

24 Thanks, Tony. I'm John Lovelace with U.S.  
25 Geological Survey. Some of the information is going to  
26 be a little bit redundant with Howard's, the same  
27 sampling effort, but I'll go through -- I'll try and go  
28 through it fairly quickly.

29 As Howard said, USGS, LGS, and DEQ folks were out  
30 sampling wells after the storm. Just to show you

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1 really why we were out there, you see, the north shore  
2 area, everyone knows, is pretty heavily damaged, but  
3 the storm surge was up to 16 feet in this area over  
4 here, southeast of Slidell, and as much as 7 feet over  
5 here in Madisonville. So levees were overtopped in  
6 this area, and a lot of wells were literally washed  
7 away with houses and other structures.

8 As Brad Hanson reported, there were approximately  
9 1,400 wells in St. Tammany Parish within Katrina's  
10 surge inundation area, and these were the registered  
11 wells, these were the ones on the books. There are  
12 probably a large number of wells out there that aren't  
13 on the books. Most of the wells are going to shallow,  
14 small-diameter, domestic wells. When the surge hit  
15 them, typically, it broke away their pressure tanks and  
16 most of the other plumbing and broke the cases, leaving  
17 a lot of the wells open to the environment.

18 Surge water may have gone into the wells,  
19 especially the shallow wells. The deeper wells weren't  
20 really a problem, because most of the deeper aquifers  
21 in that area have water levels that are above land  
22 surface, that is, they flow at land surface, so if the  
23 casing was broken, there would just be a little  
24 fountain there. The water coming up would prevent most  
25 of the surge -- really prevent surge water from going  
26 down into the casing.

27 It's kind of hard to see here, but this is typical  
28 of what a damaged well looked like. I mean, you can  
29 see ruin all around the area, and it's just a pipe  
30 sticking up at this point, little one-and-a-half-inch

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1 pipe. They're completely open.

2 Let's see. We went through what we were sampling  
3 for, and that is the area we were looking at.

4 Interesting change to the dots that I had up there,  
5 fonts do funny things sometimes. We sampled 13 wells,  
6 12 of which were in the inundation area.

7 Originally, when we went out there, we had picked  
8 a bunch of wells we were going to go sample, but the  
9 reality in the field was, we ended up going places  
10 where we saw people working, so we figured they had --  
11 probably had a water supply. So we didn't sample too  
12 many wells that were not already -- had already been  
13 repaired. We wanted wells that had a pump in there,  
14 that they were using, and in a lot of cases, they had  
15 already disinfected them with bleach. So there were --  
16 seven of the wells that we sampled were registered, and  
17 their depths range from 250 to 460 feet. Five of the  
18 wells, or a little more than a third of them, weren't  
19 registered, so it'll give you an idea, this is a random  
20 sample of how many might not be registered out there,  
21 probably a third.

22 That's just a cross-section showing -- the wells  
23 were in the upper Ponchatoula or Gonzales, New Orleans  
24 aquifers. Typically, the domestic wells are going down  
25 to the first good-quality water and they stop there.  
26 Although there's 2,000-plus feet of fresh water in the  
27 area, they stop within the first couple of hundred feet  
28 if they can.

29 This is another typical well. It was completely  
30 covered with mud and debris. The well owner was out

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1   there.  He was getting ready to disinfect it.  He had  
2   his handy bottle of bleach right there.  He was getting  
3   ready to get on with things, cleaning up his house.

4         This is another well that was at a boat ramp.  
5   There had been a little lounge across the street.  
6   There was nothing there now, except a bunch of  
7   scattered, broken pots and pans, dishes.  The sanitary  
8   seal was still on the well, but all the plumbing was  
9   broken off.  Here's the filter sitting on the ground  
10  over here, and you could tell that a bunch of debris  
11  had gone down into holes on top of the sanitary seal  
12  and into here.  It was just full of mud and vegetation.  
13  We originally pumped this well with a little  
14  peristaltic pump that Louisiana Geological Survey had  
15  brought with them.  We were pumping straight salt water  
16  off the top of it.  It was very high chloride and  
17  specific conductance.  The guys went back out a little  
18  bit later and hooked it up to a -- hooked the pump up  
19  to a generator.  The wires were still sticking out of  
20  it, and the submersible pump still worked.  And they  
21  were able to purge the well, and it returned to fresh  
22  water, completely fresh water, at that point.

23         This was another small-diameter well that had been  
24  broken off.  It had been repaired, a little quick,  
25  temporary fix.  They had run it to a small pump, and  
26  they were powering a hose just so they had water while  
27  they fixed their house.

28         This was another well that had been completely  
29  repaired.  There's two brand new pressure tanks out  
30  here, it's in the fellow's front yard, and we did get

1 hits for bacteria out of this well. And talking to  
2 Thomas Van Biersel earlier before this meeting, he has  
3 been re-sampling this well and continues to get  
4 bacteria hits since the storm.

5 So out of the 13 wells we sampled, we had two that  
6 had chloride -- high chloride and specific conductance  
7 indicative, but salt water had gone into the wells.  
8 Neither of the wells have been used since the storm.  
9 They've both been damaged. And two wells also had hits  
10 for bacteria, one of which was one of those that had a  
11 high chloride problem.

12 This was basically a little preliminary  
13 reconnaissance sampling. Our general conclusions from  
14 it is that the aquifer is not contaminated; any  
15 contamination was local, at the well; because the storm  
16 only last -- the surge lasted only a few hours, a  
17 limited amount of water could really have gotten into  
18 the wells and would have a short-term effect. Most of  
19 the wells, when we sampled them, were already in use  
20 and they had probably pumped out most, if not all, of  
21 the water -- the surge water that had gone down into  
22 them. However, they're -- because damage in some areas  
23 was catastrophic, there are probably a lot of open  
24 holes out there, open wells, that are going to remain  
25 open for an extended period to potential contamination.

26 And that was it. Any questions?

27 MR. KIRKPATRICK:

28 I have just one question. You mentioned if the --  
29 there remains openings to the -- if the tops remain off  
30 of these wells that a potential contamination could

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1 occur. Any idea how large of a problem that would need  
2 to be before you would see some impacts to the well? I  
3 mean, I see where it looks like maybe a third of the  
4 wells aren't registered, and, you know, so I -- it's  
5 going to be hard to locate all those wells. Is that a  
6 -- do you all see that as a potentially serious --  
7 potential problem, or --

8 MR. LOVELACE:

9 Well, it depends on how big the hole is and, you  
10 know, what contamination is close by. As Howard  
11 pointed out, there were some serious spills in some  
12 areas. Over near Chalmette, there was a pretty good  
13 spill, oil spill, near a plant. Now, they got out  
14 there and cleaned it up pretty quickly, but, say, if an  
15 irrigation well over in the Rita area, which is an  
16 18-inch hole, if it was sheared off at the -- at ground  
17 level, and out there in an area that was constantly  
18 inundated by flood water, stuff will continuously go in  
19 there. If it's near a field where they're irrigating,  
20 irrigation water will go down there. That's probably  
21 not going to move through -- anything that goes down  
22 there won't move through the aquifer, but it could  
23 create a little local problem around that well. And if  
24 there was enough out there, it could make a larger  
25 problem. Say, over in some of the homesites, say, if  
26 there's contamination going into the well on an ongoing  
27 basis, that could contaminate the ground underneath  
28 that homesite for the aquifer.

29 MR. KIRKPATRICK:

30 So by contamination -- I'm just not sure how

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1 sensitive these aquifers are to kind of, quote,  
2 contamination. I mean, certainly, if you've got an oil  
3 spill, that would be a very bad contamination, but, I  
4 mean, surely, if they're getting some mud and dirt and  
5 some regular rainwater down in there, is that a --

6 MR. LOVELACE:

7 Not really that much of a problem.

8 MR. KIRKPATRICK:

9 Not a problem, okay.

10 MR. LOVELACE:

11 But if there's broken sewer lines and other things  
12 around, you know, stuff got moved all around, people's,  
13 you know, household pesticides and what not, things  
14 that were stored out there close to the site, oil and  
15 chemicals, who knows.

16 MS. IRION:

17 And if you've got a group of housing developments  
18 where you've got a minimum distance between wells and  
19 sewerage plants and they're all sheared off, you might  
20 actually get some contamination there. Because even if  
21 they drill a new well, they might be picking up -- you  
22 know, once they start pumping, they'll pull any  
23 contaminants that are in the immediate vicinity into  
24 that well, as well. So, yes, if you get -- we're  
25 talking about cumulative damage. You start putting it  
26 in an area and you start trying to rebuild in that  
27 area, you might still have that problem.

28 MR. FIELDING:

29 Also, these open holes, if somebody got -- decides  
30 to dispose of something down that open hole, then

1 you've got the aquifer contaminated immediately,  
2 particularly, for instance, if they were changing the  
3 oil in their car and they thought that this is a nice  
4 place to dispose of it, then you've got a real problem.

5 MS. IRION:

6 There are really thick clays in between most of  
7 our water layers in Louisiana, for the most part, and  
8 it protects our aquifers. But when you drill a hole,  
9 you make a direct conduit into the aquifer, and  
10 anything that goes down there is going to get into it  
11 and it's not coming back out.

12 MR. FIELDING:

13 It's very difficult to clean up once it gets  
14 contaminated.

15 MR. KIRKPATRICK:

16 Thank you. Any other questions?

17 (No response.)

18 MS. IRION:

19 This is a fire hydrant in Cameron Parish after the  
20 storm. All right. If you look at the well that's up  
21 in the upper corner, that's Lake Catherine Community  
22 Center, that's out off Lake Bruin. And the Lake  
23 Catherine community is actually no more, and that's one  
24 of those sheared off wells. That's a public water  
25 system, as opposed to domestic wells.

26 Before this, we've just been talking about  
27 domestic wells. Public water systems are any systems  
28 that are serving 25 or more customers or has 15 or more  
29 surface connections, so that's the Community Center at  
30 Lake Catherine, and it's no longer. The whole

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1 community is gone.

2 There, you see a standing water tower after the  
3 storm surge has passed. A lot of the water towers did  
4 stay in tact. This was at Oak Harbor.

5 This is typical -- what happens at most of the  
6 public water systems that the took all of the -- out  
7 the buildings, this is a well. The Louisiana Rural  
8 Water folks got out there and really helped a lot of  
9 people rehab their wells. Again, what we do is  
10 purge -- if they're operational, we get them  
11 operational and put new pumps on them if we need to or  
12 new generators. We pump them -- they purge them, and  
13 then they chlorinate before we take samples.

14 This is the water tower at Buras in lower  
15 Plaquemines Parish. All of the water systems down in  
16 that area are no longer in operation.

17 So some of our systems that got hit really big by  
18 the tidal surge, like anything along the coastlines,  
19 and then, of course, in Cameron Parish, the lower  
20 Vermilion Parish, we destroy -- we deactivated 60 of  
21 them. Most of these are like little stores, so they're  
22 called non-community systems, because they don't serve  
23 a household, but -- so we deactivated, because we did  
24 have 1,591 systems when we first started, before  
25 Katrina.

26 In all, we issued boil advisories on 1,350 of our  
27 total of 1,591 systems, so you can see that pretty much  
28 everybody, at one point or another, was affected by  
29 this storm.

30 Okay. Even though we had a lot of damage to

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1 ground water system, the big population hits were, of  
2 course, on our surface water systems. We have about  
3 5 million people in the State, and as you can see,  
4 about a tenth of them were affected by the --  
5 permanently, pretty much, by the loss of drinking  
6 water. In fact, we got everybody -- all the public  
7 water systems are back in operation, except for those  
8 60 we deactivated. A few, like lower Plaquemines and  
9 the lower 9th Ward in New Orleans, are still under boil  
10 advisories.

11 One of the big problems for the drinking water in  
12 Louisiana is, we had a very great state-of-the-art, one  
13 of the best labs in the country, but it was in New  
14 Orleans. It was on the 7th and 8th floor of the DHH  
15 building. We thought it was going to be okay, but the  
16 building is pretty much a loss and the lab is gone.  
17 We've been salvaging equipment from it. Of course, our  
18 radioactive counters were in the basement. And we're  
19 tried to put up a new lab in Metairie right now. Its  
20 temporary lab date opening is in November.

21 We haven't been able to do a lot of chemical  
22 sampling, but we kept up with lead and copper sampling  
23 by sending a lot of samples to the EPA lab in Region 6,  
24 and we also -- they took some other lab -- some arsenic  
25 samples and stuff with the new arsenic rule that kicked  
26 in in January, and we have contracts now with Arkansas  
27 and Texas where we're starting to ship samples, as of  
28 July 1, to them to do to keep up with our every  
29 three-year or every one-year chemical sampling.

30 We did run around to the large surface water

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1 systems when they came back on line and take some --  
2 did some limited sampling and sent that off to EPA  
3 Region 6 just to make sure that they weren't putting  
4 out anything that we didn't -- that might put them in  
5 violation of safe drinking water program maximum  
6 contaminant limits.

7 Like you said -- everybody knows what to do when  
8 they said people were out there cleaning their wells  
9 and disinfecting and purging. They know what to do,  
10 okay, except for -- you're not really used to --  
11 usually, we're just used to flood inundation and  
12 putting it back in operation with minor repairs. We're  
13 not used to a 30-foot tidal surge which just takes  
14 everything and it's brother away.

15 But what we did is, EPA brought in two mobile  
16 bacti labs, because we also are -- one of our -- we  
17 have four bacti labs in the State, Lake Charles, Amite,  
18 which is on the north shore, Shreveport, and New  
19 Orleans. Now, of course, the one in New Orleans is no  
20 more. And Katrina knocked out our Amite lab for a  
21 couple of weeks, and then Rita came along and knocked  
22 out our laboratory, and you only have a 30-hour holding  
23 time when you sample, you know, so getting everything  
24 to Shreveport was not an option. So we had two mobile  
25 labs that came in from the EPA and they were in within  
26 the first two weeks, and between those and getting our  
27 other labs back on line pretty quickly, we never missed  
28 a beat on the bacteriological sampling. We were able  
29 not only to sample the public water system wells, which  
30 we -- and get those back on line as quick as possible,

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1 but we were able to pick up issue orders and have  
2 people bring in their domestic water samples after  
3 they've flushed and purged their wells. And we created  
4 a website so they could go on and look at their  
5 samples, since communications were dismal, still even a  
6 month after the hurricane. So we were able to keep up  
7 with bacti and with the lead and copper sampling and  
8 some of the other analysis that we need to do.

9 An overwhelming issue for my department has been  
10 the FEMA trailer parks, and their really poor  
11 construction. We've been working with FEMA to try to  
12 make sure that they at least do some protection of  
13 public housing safety. We also have to deal with  
14 another group of FEMA people that are in a totally  
15 separate area that are rebuilding offices and schools  
16 and putting in modular systems. We've very, very  
17 particular about bathrooms and other things in schools  
18 and making sure that they're safe for the children, so  
19 we're having to spend a lot of time trying to make sure  
20 that those things get built properly.

21 We used a combination of EPA stats. We actually  
22 had some other volunteers too from -- Federal staff  
23 volunteers and then, of course, the Louisiana Rural  
24 Water people, and we did huge sweeps on the north shore  
25 and in the Cameron Parish area and the affected Rita  
26 areas to get to these small water systems and check  
27 them out and try to give them some assistance when we  
28 could. We ended up doing more than 600 systems all  
29 together, and we felt pretty proud of ourselves for  
30 getting to that many. Because you couldn't call them

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1 on the phone; there wasn't anybody there.

2 We've got a lot of challenges now. Of course, a  
3 lot of our -- almost all of our income depends upon our  
4 \$3.00 fee that we get from the water systems for  
5 connection, and we've lost a lot of connections, so  
6 we're really not sure in the next year how that's going  
7 to go. We do have a lot of increasing EPA regulations,  
8 with no increasing budget, so we're looking at -- we've  
9 been passing off a lot of the analysis we used to  
10 perform for small systems off onto them, and they're  
11 also increasing. They're looking at \$40 million  
12 increases to all our systems over the next couple of  
13 years for new EPA regulations. And we have a lot of  
14 lost staff right now. We lost more than a quarter of  
15 our staff, which wasn't very big to begin with, and  
16 we're looking at not being able to hire most of those  
17 back because of budget constraints. But we're working  
18 with our water systems, like we always do, and doing  
19 more with less, like we always do.

20 I don't know if anybody has any questions. But in  
21 all, the water system came through pretty well, you  
22 know. A lot of the sewerage plants got totally  
23 destroyed, but people stayed with their water systems  
24 and kept them up and running. We did find out in a lot  
25 of those small systems, though, people were evacuated  
26 out of state, including the operators and the board  
27 members, and there was nobody to operate some of the  
28 water systems. That's something we're trying to  
29 address with LRWA and with a group called LaWARN, which  
30 is utility-to-utility assistance that we have to deal

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1 with in another major event. But we never had an event  
2 like this, but we did pretty good, I think, overall.

3 Anybody have any questions?

4 (No response.)

5 MR. KIRKPATRICK:

6 Karen, thank you all.

7 Anybody have any questions about those  
8 presentations?

9 (No response.)

10 Okay. Well, we're to the point on the agenda  
11 where any Commission comments that we might have about  
12 anything, anybody with those?

13 MS. IRION:

14 It's nice to see everybody, again.

15 MR. KIRKPATRICK:

16 Right. Any members of the Task Force here who  
17 have any comments, you're welcome to come up now.

18 (No response.)

19 Seeing none, we'll move to the public comment  
20 period. Anybody in the audience have any public  
21 comments?

22 Okay. I'm sorry. Go ahead.

23 MS. WALKER:

24 I did have a question. I was wondering,  
25 considering all we were just listening to that,  
26 especially, particularly, on the north shore, as these  
27 homes and businesses are being rebuilt, is this maybe  
28 not an opportunity to maybe get those unregistered  
29 wells on line as they go through a building permitting  
30 process, that maybe that be put in in -- you know, as

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1 they get a building permit to rebuild or whatever, that  
2 if they have a well to make sure that it's registered;  
3 would that maybe be an opportunity here?

4 MR. KIRKPATRICK:

5 Tony, what is the law on that?

6 MR. DUPLÉCHIN:

7 I --

8 MS. WALKER:

9 You know, would the local -- would the local --

10 MR. DUPLÉCHIN:

11 If I could ask Bo to answer that question, since I  
12 think --

13 MS. WALKER:

14 You know, just put a line on the permit  
15 application?

16 MR. BOLOURCHI:

17 I'm Bo Bolourchi. I've heard today a lot of  
18 comments in regard to unregistered wells. My  
19 experience is, I believe it when I see it. It's a good  
20 number of times that wells may appear to be  
21 unregistered, perhaps the owners had changed, perhaps  
22 the lot number may not be correct. This includes five  
23 years ago those wells that reported unregistered by  
24 some of the agency's staff. It's simply not being able  
25 to completely go through the data and cross reference,  
26 et cetera. Having said that, there is no doubt in my  
27 mind there are some unregistered water wells,  
28 especially domestic and irrigation wells, the pre-1976.

29 Also, I heard today that the wells started to be  
30 registered in 1986. Well, that is not exactly correct.

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1 The main registration started December 1976 for the  
2 large, industrial and public supply. In 1986, the  
3 revised rules extended that requirement to all wells,  
4 including domestic wells.

5 But as far as reregistering, I believe, especially  
6 in St. Tammany Parish, that's required with the St.  
7 Tammany Environmental Commission.

8 MS. WALKER:

9 Okay. That's already on the -- on the --

10 MR. BOLOURCHI:

11 Right, that is correct.

12 MS. WALKER:

13 Okay. It might be something to make sure that  
14 that happened.

15 MR. KIRKPATRICK:

16 Bo, it's your understanding that that might be a  
17 decision made by -- in St. Tammany, that you would have  
18 to register that, but that would not be a statewide  
19 requirement, that would be each locale that could make  
20 that decision on their own?

21 MR. BOLOURCHI:

22 Any wells drilled, domestic wells, prior to 1985,  
23 the law did not require to be registered. You can't  
24 force them to register. We recommend they register.  
25 All the water well drillers, they recommend to  
26 register. In fact, they do register.

27 And while I have the floor, I may just extend a  
28 thank you to all Louisiana water well drillers.  
29 They're the one we don't hear a whole lot about them.  
30 They worked 18 hours a day on this, 30, 40 days after

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1 the hurricane. They upgraded thousands of water wells  
2 and chlorination and that type of things. So this is  
3 something that we all need to work together to try to  
4 resolve that issue.

5 MS. WALKER:

6 I had another question, also. I recall reading in  
7 the paper not too long ago the impacts of the salt  
8 water from Rita on the Chicot, and I was wondering if  
9 we had anything on that?

10 MR. DUPLÉCHIN:

11 That is not something that we have investigated as  
12 the Ground Water Resources Division. I know that LGS  
13 and USGS and DEQ have been doing work out in the field  
14 right after the storms came in. But as far as the  
15 Office of Conservation, we have done no work with that.

16 MS. IRION:

17 Linda, I think it's mainly surface, like surface  
18 soils and things that were impacted by salt water, not  
19 so much the aquifer itself; is that correct, Karen?

20 MR. DUPLÉCHIN:

21 I do know a lot of the storm surge in southwest  
22 Louisiana was trapped once the storm passed in the  
23 fields, because of the barriers that they put up to  
24 keep the water out, wound up keeping the water in.

25 MS. GAUTREAUX:

26 At the LRA Task Force meeting, we did have a  
27 presentation by a scientist from the Ag Center,  
28 although I can't remember his name right off the top of  
29 my head, but he actually gave us a presentation, as  
30 mentioned already, about soil concentrations of --

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1 resulting from the deposits of the salt water onto  
2 areas that usually don't get salt water, but he --  
3 there wasn't any specific mention of impacts to water  
4 supply that I heard, but we could always check in and  
5 see if they have any information, as well. I think  
6 USGS, LGS, and others probably would have a water  
7 impact, but we could also, if there's interest, maybe  
8 get a copy of the article about the soil deposits and  
9 the impacts on, primarily, agriculture.

10 MS. IRION:

11 Also, Linda, we generally have ordinances passed  
12 in every parish just about that require bacteriological  
13 and chlorine sampling of the wells before they're put  
14 back in -- before they turn the electricity on at the  
15 place and, also, that the sewerage plant be working.

16 Our only big issue is, every once in a while, a  
17 constituent will go to their legislature and try to get  
18 them to try to bypass that rule, and it's an extremely  
19 good rule. And so a lot of people didn't want to put  
20 their sewerage systems back into service, especially  
21 after the storm, or rehab their systems because they  
22 said they didn't have enough money, but to let the  
23 legislators bypass that would be a crime -- be a shame,  
24 I think, because it is a protection for both the  
25 citizens and the environment.

26 MR. KIRKPATRICK:

27 Representative Downs.

28 REPRESENTATIVE DOWNS:

29 Given the -- given what I heard was the problem  
30 with the -- all these unregistered wells is because

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1 we've got some law that says you didn't have to  
2 register them before '85, why don't we amend it? Why  
3 wouldn't you want them all registered? Why don't you  
4 ask your delegation there that suffer all these  
5 problems to do that for you? I mean, you say it  
6 creates a big problem. Some of them are probably  
7 contaminated, and we don't even know where they are.

8 Is that what I heard?

9 MR. KIRKPATRICK:

10 Any thoughts about why that '85 -- I guess they  
11 didn't want to -- the law to apply retroactively.  
12 That's generally the basis why they set that '85 date?

13 MR. BOLOURCHI:

14 The law said -- obviously, when you pass a law,  
15 the economic impact is the key. Back then, of course,  
16 they said the large wells. That was easy to say and  
17 easy to get it done. But if you talk about 200,000,  
18 let's say, domestic and irrigation wells, now we're  
19 talking about economic impact.

20 MR. KIRKPATRICK:

21 Impact from fees from -- registration fees?

22 MR. BOLOURCHI:

23 Just looking for them, just going out and trying  
24 to locate them --

25 MR. KIRKPATRICK:

26 To enforce the --

27 MR. BOLOURCHI:

28 -- to enforce it. It's a great idea,  
29 Representative Downs. Perhaps maybe you'll want to  
30 consider introducing legislation with funding.

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1 REPRESENTATIVE DOWNS:

2 I'll bring it up, because you're concerned that  
3 they're contaminated and you don't even know where they  
4 are. It makes sense to me.

5 MS. IRION:

6 And we really could use the money, if we had any,  
7 and what everybody has been trying to work towards --  
8 what we're working towards, the Louisiana Recovery  
9 Authority, is if we could P&A some of these broken or  
10 abandoned, you know, it does seal off the conduit to  
11 the aquifer, and any money that could be found to do  
12 that -- I actually gave a talk to the Center for  
13 Disease Control on September 11, 2001, right in the  
14 middle of everything happening, that addressed just  
15 that situation and a request to get money, funding, to  
16 see what kind of P&A.

17 MR. BOLOURCHI:

18 I agree with you, contaminated wells should be  
19 addressed, but now we're talking about a private well  
20 at a private property. I don't think we, as State  
21 employees, can go on someone's property, use the State  
22 funding, without authorization. And secondly, I think  
23 the first thing we have to do, assess where they are,  
24 how many, and what the problems are. Karen, you all  
25 did -- after the hurricane, 1,100 domestic wells were  
26 sampled for bacteria in EPA mobile labs in the north  
27 shore area. From 1,100, only about 10 percent showed  
28 bacteria, and half of those, the first time it was  
29 chlorinated, they were gone.

30 MS. IRION:

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1           That's right. I mean, we really train people and  
2 do a lot of publicity on how to get your well back in  
3 service, and these are the ones, though, that knew what  
4 to do and knew to take their bacteriological samples to  
5 their parish health units, and there are people that  
6 just put their well back into service without doing any  
7 of that. But, you know, we do work very hard, and I  
8 think the media helps us a lot, because they post those  
9 "How to Recover Your Well from the Hurricane" on their  
10 websites, even before hurricane season starts. So we  
11 do have a lot of good publicity out there, and I think  
12 that both our public water systems and our domestic  
13 well owners are well trained on how to recover from a  
14 hurricane.

15           I wasn't saying that we need to go on private  
16 property involuntarily. I was thinking about that as a  
17 voluntary program where if somebody had a broken and  
18 abandoned hole and couldn't afford to fix it, we could  
19 tap into a fund to help that well P&A'd.

20 MR. BOLOURCHI:

21           I think perhaps, Representative Downs, if there  
22 was a funding -- if there was a funding that was set up  
23 that using the fund to look for abandoned or broken  
24 wells, getting fixed, I think, could get done a lot  
25 quicker. It really is a fundamental question. Is it  
26 recovery? Is -- taking care of the wells is part of  
27 the recovery of a general area. I mean, if you have  
28 mountains of debris on someone's lot, how much money do  
29 State employees or the State can actually spend to  
30 remove all that to look for a well? It really is the

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1 recovery question, and I think it's coming where we  
2 will get there. But funding always would help.

3 MR. KIRKPATRICK:

4 Okay. Any other questions or comments?

5 (No response.)

6 No public comments?

7 MR. COLEMAN:

8 Commissioner?

9 MR. KIRKPATRICK:

10 Yes.

11 MR. COLEMAN:

12 If I may, I'd just like to thank Representative  
13 Hollis Downs for coming and being so well -- for coming  
14 and being so well informed. I kind of felt like a  
15 Baptist sitting with him preaching and I wanted to say  
16 "Amen," because so much of what he was saying was -- I  
17 really believe was right on target. And it's  
18 encouraging to sit with a group of you all and realize  
19 that there's some action being taken in Louisiana about  
20 some issues that -- it's scary to me to think that some  
21 of the issues that's being discussed here today, we  
22 didn't have a forum for them to be discussed like this  
23 before, and so I think we're making progress. The talk  
24 that we heard from the gentleman from West Monroe,  
25 that's progress, and although everything may not be  
26 perfect, I am really encouraged about the progress.  
27 And that's all I got to say.

28 MR. KIRKPATRICK:

29 Thank you.

30 Yes, sir. A public comment, you want to come

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1 speak into the microphone?

2 MR. WOODS:

3 Yes. I'm P.M. Woods. I'm on the Board of  
4 Directors of the Louisiana Rural Water Association,  
5 starting my fourth term with them, and this has been a  
6 -- something that's been one of my passions for a long  
7 time now. We have -- everybody has to be concerned,  
8 and one of the big problems that we have is public  
9 awareness. We need to get some sort of program out  
10 that we just -- with the radio stations, T.V. stations,  
11 newspapers, that we make the public aware that it's all  
12 of our problems. This could take care of a lot of the  
13 private wells that we don't know about. And I'm sure  
14 that Louisiana Rural Water would be happy to work with  
15 some sort of program in identifying these wells that we  
16 don't know about if we've got some idea as to -- DOTD  
17 knows where a lot of wells are that probably have been  
18 forgotten about, and in our rounds and everything, we  
19 could possibly help locate some of them and check out  
20 the status and -- because -- just because it's on  
21 private property, just like Representative Downs and I  
22 were talking about, you could take a private well  
23 that's drilled into the aquifer and contaminate this  
24 for everybody. I mean, just because it's on private  
25 property, it shouldn't be off limits or out of bounds.  
26 But I think public awareness is going to be the key to  
27 finding a lot of these old wells, the old home places  
28 that people just have forgotten about. You may have a  
29 well sitting out there, and maybe somebody has just  
30 been dumping stuff in it, but it needs to be checked

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1 out.

2 MR. KIRKPATRICK:

3 Thank you. Any other comments?

4 Yes, sir?

5 MR. DUEX:

6 Thank you. I'm Tim Duex with the University of  
7 Louisiana geology department. And I think with this  
8 recent discussion brings up the point of these regional  
9 bodies that we're in the process of formulating, and  
10 I'd like to say that I think that would be a good place  
11 for this public forum to take place, also. I  
12 appreciate the language that's come out, and I'd like  
13 to reiterate that we've requested formation of the  
14 Chicot group, and I want you to be aware that we're  
15 still interested in forming up that body.

16 MR. KIRKPATRICK:

17 As we said earlier, hopefully, we can approve that  
18 language at our next meeting.

19 MR. DUEX:

20 What would be the next step in going ahead with  
21 our application?

22 MR. KIRKPATRICK:

23 Tony, can you address that?

24 MR. DUPLECHIN:

25 Okay. The next step for rule promulgation is to  
26 go through the Administrative Procedure Act. The way  
27 the statute was written doesn't allow for any group to  
28 come up and say, "Here we are, we want to be the  
29 regional body." It's the Commissioner's decision to  
30 name these regional bodies, but having a group in place

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1 that would be interested in helping to serve in such  
2 capacity would be good. So the next part here is to  
3 get a consensus on these proposed rules and move ahead  
4 with the Administrative Procedure Act process and get  
5 them published and finalized.

6 MR. DUEX:

7 Would we have to reapply? Don Broussard from the  
8 Lafayette's Authority System applied a couple of years  
9 ago, a little over two years ago, to this Commission,  
10 and as far as I know, it's still active, but we --

11 MR. DUPLECHIN:

12 It's not so much a matter of applying to be the  
13 group, the regional body. You know, you could ask the  
14 Commissioner to consider the concerns that you have,  
15 but it would be the Commissioner's decision to name the  
16 body and who's on the body.

17 MR. DUEX:

18 Well, I guess I'd like to formally request you  
19 consider that.

20 MR. KIRKPATRICK:

21 Duly noted.

22 MR. DUEX:

23 We have -- we've had several meetings, three or  
24 four meetings, and we have a contact list of 35 or 40  
25 people. If you'd like that, I can forward that to you,  
26 and that might form the basis for choosing members for  
27 the regional body.

28 MR. DUPLECHIN:

29 Okay.

30 MR. KIRKPATRICK:

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1           Certainly. Forward that to Tony, I think that  
2   would be the best step to take.

3   MR. DUEX:

4           Thank you.

5   MR. BOLOURCHI:

6           Mr. Chairman, one other comment in regard to  
7   abandoned wells or wells that have been damaged, I  
8   would recommend that if any of you should come across  
9   on of those wells, we would like to know where they're  
10   located, just let us know and we have some field  
11   inspectors that we can send out there. We said we  
12   would try to help. If you have a GPS, just leave the  
13   lat-long on it, that's all we need. Appreciate it.

14   MR. KIRKPATRICK:

15           All right. I think it's time to discuss the next  
16   meeting time.

17   MR. DUPLECHIN:

18           Okay. Even though the statute was amended to do  
19   away with the quarterly meetings and only go to two  
20   meetings a year, I would like to try and stay with a  
21   quarterly meeting schedule, if we could, especially  
22   since we have outstanding business with these proposed  
23   rules, or at least proposed language, for regional  
24   water bodies. So I would like for us to try and get  
25   together during perhaps October. That will give  
26   everyone a chance to look this over.

27   MR. KIRKPATRICK:

28           Do you have a particular week in October you're  
29   looking at?

30   MR. DUPLECHIN:

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1           Say, the 16th, the afternoon of the 16th, that's a  
2 Monday?

3 MR. KIRKPATRICK:

4           We can -- maybe if we can send an email out --

5 MR. DUPLECHIN:

6           We will send an email out to Commission members  
7 and see what kind of feedback we get, but let's go  
8 ahead and pencil that in as the 16th of October at 1:30  
9 in the afternoon.

10 MR. KIRKPATRICK:

11          Okay. With that, is there a motion to adjourn?

12 MS. GAUTREAU:

13          Motion.

14 MR. WELSH:

15          Second.

16 MR. KIRKPATRICK:

17          So moved. Second from Mr. Welsh, and hearing no  
18 objection, we are adjourned.

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## CERTIFICATE

I, MICHELLE S. ABADIE, Certified Court Reporter, do hereby certify that the foregoing Ground Water Resources Commission meeting was conducted on July 31, 2006, in the Department of Conservation Hearing Room, Baton Rouge, Louisiana; that I did report the proceedings thereof; and that the foregoing pages, numbered 1 through 83, inclusive, constitute a true and correct transcript of the proceedings thereof.

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MICHELLE S. ABADIE, CCR #24032

CERTIFIED COURT REPORTER

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